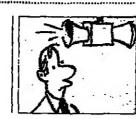
FINANCIAITIMES

World Business Newspaper http://www.FT.com

MONDAY MARCH 15 1999



Jobs for life Japanese risk-takers break the mould Page 15



By Ralph Atkins in Bonn

rersial tax reforms.

Oskar Lafontaine yesterday

broke his silence following his

dramatic resignation as German finance minister last week, accus-

ng former government col-

eagues of "poor teamwork" and

The comments reflected the

of failing to support his contro-

Laughter at work The bigger the boss, the greater the mirth Lucy Kellaway, Page 10



Lafontaine blames colleagues

Pompidou's patronage Political will and immortality through art

The Arts, Page 13

Today's survey Life Sciences: merger pressures on drug groups

Separate section

Mastering Information: Manag The FT's 12-part series on

the I in IT continues today. Part Seven:

electronic commerce Separate section



Bonn sees the need for EU to have its own military staff

The European Union may need its own military staff and policy institutions if it is to take decisions on military action without using Nato resources, says a German discussion paper.

Berger under pressure to quit US national security adviser Sandy Berger is under pressure to quit after being accused of not acting swiftly enough to protect US nuclear laboratory secrets. A report accuses China of stealing military secrets including neutron bomb technology. Page 16

Santer told to act on report Pressure is growing on European Commission president Jacques Santer to sack any commissioners criticised in a report on fraud and management standards in the EU executive. Page 2

100

Mr. Car

Kosovo peace talks restart The Kosovo peace talks between Serbs and ethnic Albanians resume in Paris today. Yugoslav troops drove ethnic Albanians out of villages near rebel-held mountains in Kosovo and

destroyed their homes. Page 2 Criminals foiled, says Lloyd's Lloyd's of London insurance market said US crime syndicates infiltration attempts had been foiled. The attempted fraud is thought to involve bogus US insurers that collect premiums but liquidate when a big claim arises. Page 8

Eritrea said neighbouring Ethiopia had launched a tresh offensive in their 10-month war, breaking a two-week lull in the fighting.

Annan backs off Khmer Rouge trial UN secretary-general Koff Annan has backed away from pushing for an international tribunal to prosecute former Khmer Rouge leaders for genocide, Page 4

Ecuador's banks braced for run Ecuador's private banks expect mass withdrawals when they open their doors to the public today for the first time in 10 days following a run on deposits the week before.

Poll win for Malaysian PM's party Mahathir Mohamad's ruling Barlsan Nasional party won a landslide victory in Sabah state in the first election since the Malaysian prime minister provoked a backlesh by sacking his deputy. Anwar Ibrahim, Page 4

kighan peace deal struck Afghanistan's warring factions agreed in principle to set up a government with a shared executive, legislature and judiciary. A ceasefire will be discussed in turther talks. Page 5

Balloonists' hopes still high Brian Jones and Bertrand Piccard, British and Swiss pilots of the Breitling Orbiter 3 round-theworld balloon effort, broke the 14,235-mile record for an unfuelled non-stop flight set last year by Steve Fossett of the US.



BUSINESS NEWS

Telecom Italia plans to axe one in three staff in restructure

Telecom Italia is planning to cut about 40,000 of its 124,000 workforce as part of its restructuring to thwart Olivetti's hostile €53bn (\$57.5bn) bid. About half the reduction would come from the demerger or disposal of noncore assets, but the rest would mean job cuts in its core telecommunications business. Page 17; Lex, Page 16

reported to be close to agreeing a strategic alliance, including a capital tie-up, after top-level meetings between the two

Creatia aims to complete the first part of the privatisation of its telecommunications utility during the third quarter this year in the flagship deal of the belated programme to sell key state assets. Page 21

Japan Tobacco will accelerate its diversification plans despite its \$8bn acquisition of the international cigarettes business of RJR

LVMH chairman Bernard Amault is prepared to freeze the French luxury goods group's stake in Gucci of Italy at below 35 per cent for at least three years. Page 20

Crádit Lyonnais is to allow institutional investors to buy stakes of up to 10 per cent under the bank's privatisation,

leading investors, has delivered a broadside over the state of US accounting, describing the attitude of many US executives to financial reporting as "a business disgrace". Page 17

Arthur Anderson, the global Big Five firm, is poised to poach a leading national practice from a rival international firm in a move that would mark its biggest success in a campaign to attract disaffected partners from competitors. Page 17

Two graduates from Cambridge. England, who started their internet business in a bedroom four vears ago while still students, are in talks with US venture capitalists on the sale of a stake that will value the company at about £30m, Page 18

Indonesia closed 38 banks and nationalised seven in what the International Monetary Fund called a "decisive breakthrough" in reforming the country's bank-

Xaar, Cambridge-based Ink jet printing technology group, is to acquire Modular Ink Technology Stockholm, for \$5.5m. Page 18

Ssangyong Dil and SK Corp's planned merger to create South Korea's biggest oil refiner Ssangyong Oil's largest share-holder Aramco voiced "serious"

Nissan Motor and Renault are vehicle groups in Paris. Page 22

Nabisco, Page 20

officially launched by the French

Warren Buffett, one of the world's

ing sector. Page 5

appeared to be under threat after concerns. Page 19

Progress of the euro Euro exchange rates des ve euro (rebased Jan 1 1999-100) 130.447 0.6696 Swedish igona Danish krone 7.A336 321.438 1,5989 Swiss tranc continued to savaggle against the dollar until Thursday's shock re

Euro-zone, Page 25

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Hard-Zone server page 62.15, 1988 in Incal Currency as shown 18.175 page 62.15, 1988 in Incal Currency as shown 18.175 page 62.175 p
CES US\$4.00 Acres 2017.75 Personal Society (13.00 Crostin Knt9.00 Kmeekt Knt9.00 Faculti Knt9.07.750 Getax GR13.00 Lutvia Lst.65 South Africa R16 Desember Exc34.00 Litheanth L021.00 Speth Pa325(£1.95) Estanda Frici South C2.19 Lutenaturu L021.00 Speth Pa325(£1.95) Finalmi Frici South C2.19 Lutenatururu L021.00 Speth Fa325(£1.95) Speth Frici South C2.19 Lutenatururururururururururururururururururur
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deep frustration felt by Mr Lafontaine, whose resignation ended a power struggle with Gerhard ment proposals for capping cor-Schröder, the German chancellor, porate tax rates from next year at and came as cabinet ministers presaged a clearly more pro- ent rates in excess of 60 per cent business stance by the centre-left

Former German finance minister hits at 'poor teamwork' Müller, who as economics minisfinancial affairs until next month at Mr Lafontaine's legislation

ter has responsibility for federal when Hans Eichel, Hesse prime minister, takes over the finance ministry, indicated a softer-line on shutting the country's 19 atomic power stations. There would be no "forced" closure, he

said on ZDF television.
Mr Müller also said govern-35 per cent - compared with pres-- should be ready before the Bonn government. Werner summer parliamentary break, sented and had not been backed

The move would be welcomed by industry, which protested fiercely that closed many loopholes benefiting business.

Even before last year's election. Mr Schröder pushed for a 35 per cent top corporate tax rate for all businesses, regardless of their legal form. Speaking in his pative Saar-

brücken, however, Mr Lafontaine, who also stood down as chairman of the ruling Social Democratic Party (SPD), said his measures had been misrepre-

adequately by colleagues. He did not mention the chancellor by name but said the "[government] team discussed whether we were pursuing a husiness-hostile policy" when small and mediumsized family businesses would

actually be DM5bn (€2.56bn) bet-Mr Lafontaine added: "Team work requires that you watch out for each other and that you stick together, especially in public." Mr Lafontaine said that since an attempt on his life in 1990, be had wondered how he could combine

the burdens of office with a fam-

have decided on a privatelife". The absence of direct criticism

of Mr Schröder or other ministers will come as a relief to the goverument. Senior figures in the coalition were happy last night to admit errors in co-ordination and teamwork but regarded Mr Lafontaine's departure as offering a "second chance" after a difficult first four months in office. Seeking to create an air of normality. Mr Schroder today starts

a week-long tour of European capitals.

Shake-up expected, Page 3 Editorial Comment, Page 15



Boxing promoter Don King (centre) with Lennox Lewis (right) and Evender Holyfield after the fight

Promoters win by knock-out

By Patrick Harverson in London

Promoters and broadcasters emerged as the only clear win- pay-per-view channel, TVKO. ners from boxing's latest debacle as controversy raged around the decision of the judges to rule Saturday night's world heavyweight in about \$60m to the event's

a draw. Within moments of the final beli sounding, the pressure was mounting for a rematch den to host the fight. between Evander Holyfield of the US and Lennox Lewis of Britain powerful interests that control

The two biggest beneficiaries of second fight would be Don even more lucrative. King, the promoter who masterminded the Holyfield-Lewis bout, be held outdoors at Yankee Stathe decision in two words: "It and Home Box Office, the giant dium, the baseball stadium in the stunk."

US cable relevision company that Brony that could hold 50,000broadcast the proceedings from Madison Square Garden on its

Early returns indicate more than 1.2m US subscribers paid See to water the fight, bringing titles, while his British opponent earned from the 21,300 ticket sales, plus \$8.5m from the fee charged to Madison Square Gar-

Given the row that erunted over the outcome of the fight that could generate more than the three ringside judges failed to \$100m in revenues for the award Lewis the bout even though he landed 348 of his punches compared to Holyfield's 130 - a rematch would prove

60,000 for a championship fight. The other main beneficiaries of a rematch would obviously be the two fighters. Holyfield was paid \$30m to defend his two world earned \$10m to put his lone title

The biggest loser on Saturday night was boxing's already battered integrity. "It is the kind of decision that will hurt boxing as much as Mike Tyson biting Holyfield's ear in 1997," said Timothy Smith, who reported the fight for The New York Times.

Lou Di Bella, a HBO senior vice-president, who is the most powerful man in televised boxing, said the result was a trav-

Microsoft and Intel set for telecoms link-up

By Richard Waters in New York and Roger Taylor in San Francisco

Microsoft and Intel are expected on the fast-growing telecommunications equipment business. marking their biggest push yet into an industry worth an estimated \$250bn a year.

Together with hardware suppliers Hewlett-Packard and Nortel. the two are expected to unveil an alliance that, if successful, could open up a huge new market for Microsoft's Windows NT operating system and intel's Pentium microprocessors. Most relecoms equipment currently operates on proprietary software using chips produced by a range of manufacturers, including Motorola.

The venture could also advance the introduction of compare notworks combining voice, data and video signals on the same infrapresent, the tele coms bridge between most companies and the public network handles only voice traffic, and sits alongside separate data equipment.

The plan is for Nortel to build routers, switches and servers for corporate computer networks ers. rupning Microsoft NT software and handling both data and voice communications.

Roger Wery, executive vice-president of Renaissance said the technology alliance Unix.

could act as a wedge giving Intel and Microsoft their first big stake in telecoms equipment. By introducing the open technology today to announce a joint attack architecture of Microsoft and Intel's "Wintel" alliance it could also bring down prices rapidly,

he added. Nortel initiated the new fourway alliance, in a departure from usual practice in the telecoms equipment market. Competitors such as Cisco Systems and Lucent Technologies produce both the hardware and the software needed for their equipment.

The venture could give Nortel the opportunity to get in on the ground floor of a growing market, even if it runs the risk of undermining its profitable voice telecoms business lines.

Other telecons equipment suppliers could eventually be brought into the alliance if it proved successful.

It is understood that range will be marketed by Hewlett-Packard under its brand name. Hewlett-Packard has an alliance with Cisco Systems to provide systems to network operators such as telephone compabies and internet service provid-

Windows NT has yet to gain a footbold in the telecoms industry, although it has fored better with banks and retailers. Critics claim that it is less suited to large-Worldwide, a consulting firm, scale applications than rival

Summers warns on risks of dollarisation

By Stephen Fidler and Richard Lapper in Paris

treasury secretary, yesterday expressed in the most concrete terms yet the limits to possible US co-operation with any country deciding to adopt the dollar as its national currency. A debate over whether other

governments could expect co-operation with the US in "dollarising" their economies followed Argentina's announcement in January that it was considering such a move. Other Latin American countries, such as exchange rate regimes.

Aides said Mr Summers' remarks were meant to strike a neutral tone but amplify the constraints on co-operation. Speaking to a conference ahead of the InterAmerican Development Rank's annual meeting in Paris. he said the US could not be discount window or alter moneaccount of another country's economic needs.

Adopting the dollar would require "careful and extended analysis". Dollarisation offered stability by lending US credibility to a country's economic and financial policies as well as helping its integration with the world economy, Mr Summers said.

"However, the country must also be prepared to embrace the lack of flexibility it brings," he Larry Summers, US deputy said, adding this meant losing control over interest and

exchange rates. "It wouldn't be appropriate for the US authorities to adjust their bank supervisory responsibilities, access to the Federal Reserve discount window or procedures for orientation of US monetary policy in light of another country's decision to dollarise its monetary system," he said.

His remarks left open the possi bility that the US would agree to share "seigniorage" - the inter-El Salvador, are considering dol- est on foreign exchange reserves larisation as dissatisfaction that countries would lose by mounts with alternative adopting the dollar and the US would gain - and also of an increased dialogue with dollarising economies over economic policies. Argentina, which has started

discussions with the US on dollarisation, has been informed of the substance of Mr Summers' remarks, which reinforce reservexpected to allow another coun- ations expressed by Alan Greentry access to the Federal Reserve span, Federal Reserve chairman, about extensive co-operation over tary policy procedures to take monetary policy with dollarising economies

Pedro Pou, president of the Argentine central bank, said: "Countries which do not join a currency union may find it too dangerous to keep the capital account open."

IADB conference, Page 6; Conditions ease for Brazil's borrowers, Page 20

CONTENTS

World News: International 2.5 Europe 3 , Asia Pacific 4 , US 6

Management /Technology:

Comment & Analysis: 14,15 Companies & Finance: 17-22 Markets: 31-33

Full contents and Lex: back page



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'Fine tuning'

reform deal

By Peter Norman In Eltville, Sermany

trim its overall cost.

Agenda 2000 negotiations on-

reform of the EU's budget, farm policies and structural funds, Joschka Fischer, Ger-

man foreign minister, said

the European Commission

would work out proposals

for cutting the overall cost of

the farm package from

€289.3bn (\$315bn) to €283bn

in the seven years from 2000

The lower figure would

represent a stabilisation of

farm outlays around the

demanded by EU heads of .

Fischer and Jacques Santer,

Commission president, said

the savings could come from

cuts in direct aid to farmers.

After an informal weekend

to 2006.

WORLDINEWS

KOSOVO NEGOTIATIONS RESULT EXPECTED WITHIN A WEEK

Make-or-break peace talks resume

By David Buchan, Diplomatic Editor, in London and Guy

between Serbs and ethnic Albanians resume today in Paris for what the French and British chairmen hope will be a reasonably short make-or-break session.

The previous negotiations at Rambouillet in France last month broke up after 18 days when Kosovo Albanian representatives demanded time to consult their political and military ranks at home, while Serbian negotiators balked at the prospect of a foreign peacekeeping force.

The Contact Group of mediating countries - com-prising France, Britain, the US, Russia, Germany and Italy - is trying to get the two sides to agree on self-government, but not independence, for the ethnic Albanian majority in Kos-

Kosovo is part of Serbia, the larger of Yugoslavia's two provinces.

Yugoslav army troops slavia still resists the west's

a string of villages in the by Richard Holbrooke, US foothills of the rebel-held envoy, that it should be Cicavica mountains in north- allowed to deploy peaceern Kosovo, after driving out several thousand ethnic tlement Albanian inhabitants and shelling and torching their

An intense artillery bombardment on Saturday drove separatist rebels of the Kosovo Liberation Army (KLA) deeper into the mountains west of the main town of

Serbian and Albanian negotiators return to the talks with their public positions little changed in the three weeks since Rambouillet. Ethnic Albanian negotiators have for some time indicated they are on the verge of signing the draft peace agreement and have come under heavy pressure to do

Hasim Thaci, the effective head of the Albanian delegation, said at the weekend that his side would give its "definitive answer" in Paris. For his part, President Slobodan Milosevic of Yugokeepers to shore up any set-However, France and

Britain intend the new round of talks to focus on military implementation. They say they will resist attempts to reopen negotiations on the political powersharing part of the draft deal, which they claim was substantially agreed by both sides at Rambouillet.

In contrast to Rambouillet. which overran several deadlines, no time has been set for the new talks. "The trouble with deadlines is that nothing happens until the deadline," said Robin Cook, UK foreign secretary, at the weekend. Nonetheless, the UK and France have made clear they want a result within a week.

If, as is likely, the Albanians accept the peace deal but the Serbs refuse it, then the latter will expose themselves to the risk of Nato air



obstacle to peace. Nato's top commander, acknowledged Mr Milosevic's

But, speaking at the week-General Wesley Clark, end, the Nato general claimed: "We are in a good position today because he Nato has repeatedly brinkmanship, saying the [Mr Milosevic] respects Nato

EU foreign ministers. meeting informally in Eltville. Germany, over the on both sides to sign the

if it is seen to be the clear shrewd and calculating". aware of what it can do".

The main problems to be solved by EU leaders at their special summit in Berlin on March 24-25 would relate to European Union foreign the financing of the KU budministers yesterday agreed not to reopen last week's get. These included Germany's wish for a reduction of the EU's common agriculin its €11bn net contribution tural policy, but called and pressure from other EU instead for detailed fine countries for cuts in or the countries for cuts in or the elimination of the UK budget tuning" of the settlement to rebate, negotiated by Margaret Thatcher, prime mints-Delivering a bullish interim assessment of the

ter, in the 1980s. Mr Fischer acknowledged that the British rebate issue was difficult as it symbolised a much wider debate in Britain about the UK's pos tion in the EU. Gerhard Schröder, German chancellor, will discuss it tomorrow. with Tony Blair, UK prime minister, when he visits London on a tour of European capitals in search of compro-

mises for the Berlin summit. Robin Cook, the UK forbattling to keep the rebate, claimed yesterday that government last month. Mr Britain was "getting the message across that the rebate is not for negotia-tion". He added: "I believe we will emerge from Berlin with the rebate as good as

meeting of foreign ministers, ever." Mr Fischer said there was Although the CAP reform, agreed by farm ministers also "light at the end of the tunnel" in negotiations on the level and type of structhe EUs poorer regions in scrutiny from EU economics and finance ministers today, 2000 to 2006. Special arrangements would be made to the foreign ministers' talks help Ireland and Portugal, should mean that the price which stand to lose heavily cuts and other decisions affecting agricultural marunder Commission proposals for structural policy reform.

G7 still wary despite Russia's IMF optimism

By John Thombill in Moscow and Stephen Fidler

The Group of Seven industrialised nations still appears ambivalent about whether to assistance to Moscow, as the Russian government insists it can clinch an agreement with the International Monetary Fund by the end of

Following talks with senior IMF officials in Washington. Victor Chernomyrdin, the former Russian

became the latest in a long line of Russian politicians to predict a speedy deal.

Today I am convinced that everything can be done in March, precisely in March. And it is very important not to go beyond March." Mr Chernomyrdin said on Saturday, before returning to Moscow to brief Yevgeny Primakov, prime

Mr Primakov has promised to devote this week to economic issues, before flying to Washington on March 23 for talks with Al Gore, US

cial government envoy, vice-president, and the IMF, uct to closer to 4 per cent. The Russian media are already portraying the trip as the "make-or-break" event in Mr Primakov's sixmonth premiership.

The IMF, which suspended its lending programme to Russia following last August's crash, has said the "common understanding" of inconclusive talks. But the hype". IMF still insists the governbudget surplus from 2 per

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The lower house of Russia's parliament complicated the government's task on Friday by voting to reduce VAT from July 1. a move opposed by the IMF.

Anders Aslund, a Russia specialist at the Washingtonbased Carnegie Endowment two sides have reached a for International Peace, dismissed all talk of an immithe government's fiscal prob- nent deal between the IMF lems - after months of and Moscow as "media

"The Russian government ment must raise its primary is not prepared to make any must sign up to a new IMF compromises on anything. cent of gross domestic prod- And Washington is not in a

mood to be bullied," he said. But other observers argued the IMF talks had moved The US administration has

hinted it might lobby other from the economic to the geopolitical realm. suggestwestern governments to write off much of Russia's ing an outline agreement could soon be reached even Soviet-era debt. But Bonn, if disbursements were which owns half of Russia's delayed. As in the past, the 860bn of sovereign debt, has rejected any talk of debt for-Russian government has giveness while acknowledgplayed on western fears that the country will implode ing the necessity of reschedunless further assistance is uling repayments.

"If Russia is well managed Although the G7 countries it has the potential to be a unanimously insist Russia rich country. Therefore debt forgiveness is out of the programme, they appear question," said a German

Rebel deputies to Turkish poll

pose threat

forthcoming.

Turkey is braced for the interim by a weak govrenewed political chaos if rebel parliamentarians manage to postpone elections due next month.

"Chaos is now awaiting Turkey." Bülent Ecevit, the caretaker prime minister, said at the weekend when denuties who had not been nominated as parliamentary candidates joined forces with hardline members of the islamist Virtue party to vote to reopen parliament. The embly had closed ahead of campaigning for early general and local elections

on April 18. A protracted parliamentary session could compli-

cate the run-up to elections. The vote coincided with the petrol bomb attack on an Istanbul department store, which killed 13 people. The attack was the worst in a series triggered by Turkey's capture last month of Abdullah Ocalan, leader of the organisation, who is await-

Postponing the elections until 2000 would hamper vit's.

Turkey's push for stability. The country would be run in ernment unable to carry out economic reforms or take political action to undercut

support for the PKK. Turkish financial markets have rallied recently on hopes that an election held soon after Mr Ocalan's capture would produce a strong

secularist government. Hardliners within Virtue's 144-strong parliamentary group want to use the threat of a delay to elections to secure the lifting by the 550strong parliament of an electoral ban on Necmettin Erbakan, eminence grise of the Islamist movement, and Recep Tayyip Erdogan, former mayor of Istanbul. They were banned from political life after the closure of Wel-

fare, Virtue's predecessor. Some independent politicians argue that postponing the elections could help democracy. "If we succeed, this will be the beginning of democratisation in Turkey," said Gökhan Capoglu, who set up his own party after being expelled from Mr Ece-

pressure to act on report

Santer under

the European Commission. was under mounting pressure last night to dismiss any commissioners criticised in a report on fraud and management standards budget inside the EU executive, to be published today.

Santer that his own head would be "on the block" if he failed to take swift and appropriate action.

The warning reflected a growing determination in parliament to ensure that Mr Santer does not dodge tough decisions if damning evidence against commiss

comes to light. Those most under threat are thought to be Edith Cresson, the former French prime minister, and Manuel Marin, the Spanish vice-president of the Commission.

Yesterday, Pauline Green, leader of the Socialists, made clear that the Committee of Wise Persons' report should be treated as the benchmark for judging the behaviour of individuals and the Commis-

sion as a whole. "We expect Jacques Santer to take rapid and decisive action as soon as the inquiry report is published," Mrs Green said. "If the report shows wrong-doing by any individual then, whoever they are, they must be

its college could severely complicate the functioning of the executive as it tries to steer difficult negotiations on the future of the EU's

The 11 commissioners interviewed by the five-The 214-strong Socialist strong panel of independent group - the largest in the experts - set up by parliaexperts - set up by parlia-European Parliament – ment to probe allegations of issued a statement telling Mr fraud, nepotism and mismanagement - were invited yesterday to see the parts of the report that referred to

> Commission sources said a. majority of those invited had attended private sessions. including Mrs Cresson and Mr Marin.

Mr Santer and José Maria Gil-Robles, president of the parliament, will receive the report at 5pm today. An emergency meeting of the Commission has been arranged for later in the evening to decide what action to take.

A senior Commission official close to Mr Santer said the president would make a decision tonight on whether to press for the dismissal of one or more of his col-

Mrs Cresson, responsible for research and education. has faced allegations over recent months concerning appointments to her inner circle and failure to ensure that projects under her management were prop-

El Al crash study set to rebuke Dutch ministers

By Gordon Cramb in Amsterdam

today enters a tense two an ingredient for making the weeks as a parliamentary commission compiles a report likely to criticise min-El Al air crash in an Amsterleast 43 people.

Hearings which concluded the transport and health just after the crash. ministries began only last year, although there had long been unexplained ailments among residents of viding The Hague with full the area where the cargo jet co-operation, said a misun- ter in 1994-98 and now in came down.

an engine mounting failed as papers. Wim Kok, Dutch ter, have indicated they will

route from New York, was carrying depleted uranium disturbing". The Dutch government as ballast. Its hold contained

nerve gas sarin.

isterial handling of the 1992 this year that the full list of its cargo came to light. dam suburb, which killed at Investigators located the documents at a US shipping agency, and discovered that on Friday revealed that the state-owned Israeli carintensive contacts between rier had been given a copy

El Al and the Israeli govmaintained they were pro-

Much of the attention during some 150 hours of hearings centred on The Hague's But it was not until after response to the disaster. In the inquiry got under way spite of the health complaints and unanswered questions, the issue soon slipped from the cabinet agenda. Eight ministries compiled dossiers but did little to exchange informa-

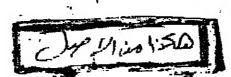
Most at risk from the report, due by the end of the ernment, which had both month, are Mr Kok's two deputy premiers. Annemarie Jorritsma, transport minisderstanding was to blame for charge of economic affairs, The Boeing 747, on which the failure to hand over the and Els Borst, health minisit took off for Tel Aviv en prime minister, described resign if found negligent.

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EUROPE

LAFONTAINE'S RESIGNATION CLOSEST ADVISERS LIKELY TO BE REPLACED WITHIN THE NEXT MONTH • OBSERVERS PREDICT EARLIER CUT IN SHORT-TERM INTEREST RATE Shake-up expected at ministry

Oskar Lafontaine's resignation as Germany's finance minister is expected to trigger a shake-up in the finance ministry's top team, with two of his closest advisers likely to be replaced within the next month.

By Wolfgang Münchau In Frankfurt

State secretaries Heiner Flassbeck, who has been responsible for international economic policy co-ordination, and Claus Noé, who has been in charge of budgetary affairs, are both expected to leave the finance ministry in the wake of Mr Lafontaine's

Mr Flassbeck has been Mr ward a reduction in the ministries of the two coun-Lafontaine's closest eco- short-term interest rate from nomic policy adviser and the current benchmark of 3.0 was influential in shaping per cent. the former finance minister's The ECB's governing core economic beltefs. He

get zones to limit exchange rate fluctuation between the world's largest currencies.

was also the mastermind

The change in leadership at the finance ministry is also expected to lead to a more relaxed atmosphere between the German government and the European Central Bank. Many ECB-watchers believe Mr Lafontaine's resignation will bring for-

council is due to meet for its fortnightly council session behind the controversial pro- on Thursday. A cut in interposal to set up currency tar- est rates this week, however, is considered unlikely by close observers.

The upheavals in German politics may also affect the close relations between the German and French finance ministries. Mr Lafontaine, a fluent French speaker, and his team of top advisers have been instrumental in improving the policy co-ordi-

Hans Eichel, finance minister designate, is likely to focus more strongly on domestic economic policy issues. His appointment, which will take effect in to take over as president of early April, is also likely to the Bundesbank. Hans Tietshift the balance of German meyer, current president, is economic politics from Mr Lafontaine's macroeconomic approach back towards Bonn, Germany's finance structural reform and sup- ministry will be run by Werply-side policies.

As premier of Hesse, the state that contains the financial capital Frankfurt, Mr Eichel has developed a reputation as a pragmatist, who

with Frankfurt's commercial the Frankfurt-based ECB

His appointment is also likely to boost the chances of Ernst Welteke, president of the Hesse state central bank. due to retire this summer. ner Müller, economics minister. Mr Müller will also take part in today's meeting of

European finance ministers

EU withholding tax proposal still alive and kicking

In spite of the loss of one its strongest advocates, the plan to levy a charge on savings remains, write Vincent Boland and Emma Tucker

skar Lafontaine may bave gone, but one of the former German finance minister's favourite subjects - a proposal to levy the country's banking a withholding tax on savings is still alive and kicking.

The European Commission's proposal for a minimum 15 per cent withholding tax has won strong backing from the European Parliament, and Germany, which holds the European Union presidency, wants it adopted. But opposition to are big investors in the secthe plan is building. Luxem- tor on behalf of clients bourg has joined the UK in throughout Europe and leading attacks on the proposal, which both countries claim would seriously damage the \$3.500bn global bond have been welcomed by try would lose their jobs.

which they play large roles. A report out today suggests the tax would undermine the credibility of ciation (IPMA), a trade body. Europe's capital markets, said: "There was always a especially those of the City of London, the leading international financial centre. It argues that the global bond market is a crucial asset for

Luc Frieden, Luxembourg's budget and justice minister, said this month the EU directive would damage secrecy laws. He also suggested opposition to the move went beyond the UK and Luxembourg.

"There are still too many problems, and no discussion on the subject has yet taken place at EU finance minister level," he said. Luxembourg's many private banks many of the bonds are listed on its stock exchange. Mr Frieden's comments

("eurobond") markets in opponents of the tax in the UK. Chifford Dammers, secretary-general of the International Primary Market Assorisk that the UK would find itself isolated. There is a better chance of the chancellor [the UK's finance minister] standing firm if he's not the only one who opposes it."

Eleven KII member states do not tax interest on the savings of individuals based in other member states, a ploy to attract capital. The Commission argues that this leads to a distortion of the single market and wide-

spread tax evasion. It has asked accountants Ernst & Young to study the impact of the directive on the international bond markets. Studies in London say between 5 and 7 per cent of the global bond market would relocate outside the EU - either in the US or. more probably, Switzerland - and that 10 per cent of those employed in the indus-

The Swiss parliament will stir up discussion in the EU when it begins a debate today on the abolition of stamp duty on international transactions on the Swiss stock exchange. Swiss officials are setting up a secondary market to trade global bonds and expect to win at least SFr1,000bn (\$685bn) of

The latest critical report dents, or non-EU residents. tre for Policy Studies, the British free market thinktank, urges the UK government to use its veto to kill the withholding tax proposal, which it says would do nothing to curb tax evasion because other forms of

tax-free investment would

replace bonds. The withholding tax would be both damaging and ineffectual," says Richard Baron, the report's author. "Not only would it be a sledgehammer to crack a nut, the hammer would miss the nut and come down squarely on our toes.'

ut Mario Monti, the Scommissioner in charge of the proposed directive, claims the City of London has exaggerated the investments to countries to find a negotiated solution. with no savings tax.

individual holders of interinstitutional investors. Nor to be approved unanimously would it cover domestic resi- by ministers.

on the tax plan, by the Cen- The measure would affect international bonds.

The UK government insists it will not approve any measure on withholding tax that includes global bonds. IPMA and the Corporation of London have been lobbying hard for international bonds to be exempted, although it is not clear whether Germany would

"We would like to get an exemption and are trying to direction of politics that we get it. The question is have taken in the past whether this is achievable." says Ivan Royle, who has been leading the Corporation of London's efforts to put the City's case in Brussels.

Luxembourg's opposition is unlikely to diminish because promises weren't before June's general elec- kept. tion, and Commission offiimpact of the proposed law, class say the chances of an particularly the fear that it agreement before then are would lead to a migration of slim. Brussels is determined but in the meantime, the UK can't work together He says it would apply to and Luxembourg can prevent the directive becoming national bonds only, not law as a tax measure, it has

Poor teamwork cited as reason for quitting

Oskar Lafontaine yesterday commented for the first time on the reasons for his resignation as Germany's finance minister last Thursday. The following is from his statement, reported by Reuters in Bonn:

"I would first of all like to say that the decision has nothing to do with the months. We are proud that promises. That's something new in politics, because voters were often disappointed in the past

"The reason for my resignation is the poor teamwork that we provided in the last few months. Without good teamwork you successfully. Teamwork requires that you watch out for each other and that you stick together, especially in

"One example – while we were able to cut taxes for small and medium-sized companies by DM5bn [€3.5bn, \$2.8bn], the team was discussing whether we were pursuing a

business-hostile policy. Work

that out for yourself. "When the team doesn't play well together, the team has to be rebuilt. My step was a precondition for that. The new team is in place. I wish the new team success in their work with Gerhard Schröder.

"The question that certainly has to be discussed, is why I am only commenting now. I said that I needed some distance. And I especially wanted to avoid any self-justification to come out of my explanation. And I wanted to set an example that you cannot unburden yourself when you quit by putting burdens on others. I will say it again. The mistakes we made were made by all of us, and I

we can all accept.

"Now a statement for the party itself. This step was naturally not easy for me. I have been in the party for 33 years and in leadership positions for 30. That's a longer time than many other politicians. That means the party is part of my life.

"Ever since the [1990] assassination attempt I have been asking myself how much further I want to continue with this great burden for my family and private life. And now after all these years I have made a decision for my private life. I hope the party will

understand. "I wish the party all the success. I will follow it with interest. I belong to the

"And there's something you should never forget. The heart isn't traded on the stock market yet, but it has a home. And it beats to the left. Thank you."

US policymakers relieved at departure

US economic policymakers are unlikely to mourn the loss of Oskar Lafontaine from the international monetary landscape. There was no official reaction in Washington to his resignation last week, but privately the overriding sentiment was relief.

With trade pressures intensifying across the Atlantic, the principal American concern in the past six months has been that continental Europe should do more to promote domestic demand-led growth.

Concern about the sluggish European economy has become an dominant theme of meetings of the finance ministers and central bank governors of the Group of Seven industrialised countries. US officials are understood to believe the departure of the mercurial former finance minister increases the likelihood of stronger short-term and longer-term

Like Mr Lafontaine, senior US administration officials have been disappointed at the failure of the European Central Bank to cut interest rates to get the European economy moving. But unlike Mr Lafontaine, US policymakers have kept their disappointment mostly to themselves, and saved their advice on policy for private conversations. They sus-

ected the former libabce minister's outbursts were keeping the ECB from cutting interest rates, for fear of seeming to kowtow to politicians. If the ECB does not now move quickly to cut rates, the disappointment will be felt all the more keenly in Washington.

There is some hope too that Mr Lafontaine's resignation will make structural

They suspected his outbursts were keeping the ECB from cutting interest rates

reform of the German economy more likely. Most US officials see this as essential to restoring longer-term espects for strong growth. **IIS administration officials**

have viewed the struggle between Mr Schröder and Mr Lafontaine with growing concern. When the Social Democrats won last September's election, most observers thought the new government would be a useful and constructive partner in the moderate centre-left politics of which US President Bill Clinton has been such an enthusiastic champion. They imagined Mr Schröder and

his *neue litte* allies would like Tony Blair and his supporters in Britain, be willing to join the US in the battle to inject a bit more economic realism into the global pol

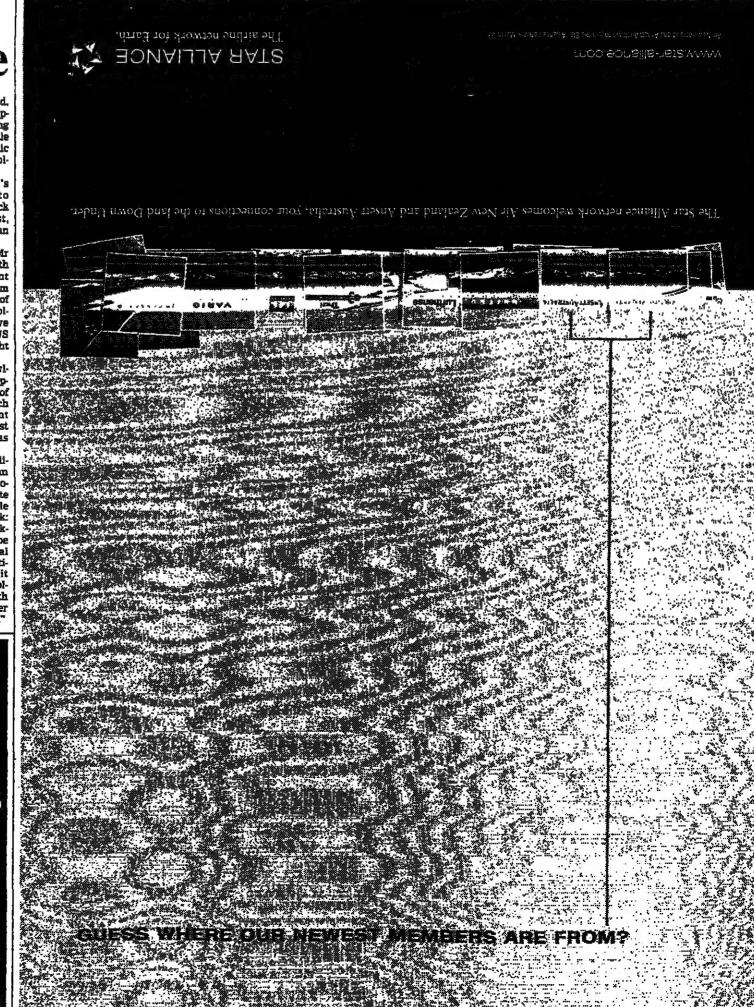
But Mr Lafontaine's approach looked to Americans like a throwback to the inflexible, statist, welfare-dominated European

The circumstances of Mr Lafontaine's departure, with the German government under strong pressure from its less business friendly policies, are likely to give encouragement to the US that economic reform might now be a possibility.

But US observers acknowledge that Mr Lafontaine represented a strong strand of European opinion, which will not change overnight just because one of its most prominent advocates has As one international poli-

cymaker - not an American put it last year, the Euro pean economic policy debate could be more intractable than some optimists think: "The European central bankers all think what Europe really needs is structural reform. The European politicians all believe what it needs is looser monetary policy. They are probably both right; but it's unlikely either of them will get their way."

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By Ted Bardacke in Pimom Penh

backed away from pushing for an international tribunal to prosecute former leaders of the Khmer Rouge for genocide after the Cambodian government rejected the conclusions of a UN report that recommends such a trial.

The move by Mr Annan dims the already fading prospects for an international tribunal for the former Cambodian rulers. It also comes just ahead of today's formal presentation to the UN Security Council and General Assembly of the UN report on a Khmer Rouge trial.

The 61-page report, drawn up by three international jurists at the request of the Cambodian government in 1997, recommends that the UN establish an od hoc international tribunal outside Cambodia for crimes committed during the mid-70s Khmer Rouge regime, when as many as 2m Cambodians, or a fifth of the population,

The report based its conclusion on the idea that Cambodia lacks an impartial Kofi Annan, United Nations criminal justice system secretary-general, has because of a series of failings, including corruption, political interference, imprecise legal foundations and a

Mr Annan relterated those concerns in a meeting with Hor Namhong, the Cambo-dian foreign minister, on Fri-

said that the Cambodian judiciary in its current state was "unlikely to meet minimal justice standards" and that a South African-style truth commission, a mechanism that the UN report suggests could be used for lower level Khmer Rouge officials, is "not a substitute" for jus-

But Mr Annan did not personally endorse the report's call for an international tribunal. Despite requesting the report, the Cambodian government is not bound by its findings.

Rouge ally, opposing an international tribunal unless the Cambodian government agrees, there appears to be political forces".

The path has now been cleared for the Cambodian government to pursue a trial in a military court for Tu Mok, the former battlefield chief of the Khmer Rouge lack of personnel and funds. . and the only top leader of the now-defunct rebel group in detention.

Most other Khmer Rouge leaders enjoy either formal or de facto immunity.

Mr Hor Namhong requested international assistance for the Ta Mok trial, a request which puts the international community in a quandary. A great deal of time and

foreign funding has been dedicated to documenting Khmer Rouge atrocities, documentation that would be invaluable for Cambodian prosecutors of Mr Ta Mok. But international co-operation would also legitimise a trial by a suspect judicial

In their report, the UN experts warned against international participation in a local trial, because of concerns that it would be "subject to manipulation by

Annan cool towards Malaysia's ruling coalition Khmer Rouge trial celebrates landslide in Sabah

Thousands of miniature wooden signs plastered with pictures of state politicians lined the streets of Sabah

Dotted among them was a portrait of Mahathir Mohamad, prime minister, even though his name was not in the ballot.

But it was Malaysia's first election since Dr Mahathir provoked an unprecedented backlash against his 18-year rule by sacking his popular deputy, Anwar Ibrahim. Dr Mahathir knew the results would be used to gauge how much support is still commanded by the ruling Barisan Nasional coalition, and, by extension, himself. He won a landslide vic-

tory. Barisan seized 31 of the 48 seats and the higgest opposition party, the Chris-tian-led Parti Bersatu Sabah, or PBS, took 17. But the poll was marred by charges of vote-buying and "phantom voters", and political analysts were unconvinced that Barisan would fare as well in as development. He Anwar's remote forests by day and in



"Although Mahathir has ment for him, I don't think people saw it as that in Sabah or on a national level, and I don't think he really sees it as that," said K.S. Jomo, professor in the faculty of economics and administration at the Uni-

Sabah's elections are dominated by local issues, such the general election that detention, beating and trial

versity of Malaya.

power to conceal sexual misdeeds are known but too far away to be an issue. The parties that present the biggest challenge to Barisan on a national level are unknown

But the 73-year-old Dr Mahathir wanted to make a statement, and he fought vigorously, flying three times to Sabah in recent weeks, campaigning deep in cities by night. He brought

with him. But perhaps most effective were his threats of Barisan to power.

In a village over water on stilts, Barisan flags - of a scale, symbolising justice fluttered above unpainted wins, Sabah can develop, said a gaunt fisherman. On a nearby street of one-storey homes, a single PBS flag

Ivie Liew, a teacher fair PBS would win. She considered undemocratic the warnings that the federal vide generous aid to the state if it voted for the coalition Harris Mohd Salleb, acting president of the Rersekutu opposition party, said Barisan has ruled Sabah for more than 31 years, "If the Barisan Nasional rule could bring economic development, Sabah today should be at par with other more advanced states of Malay-

buying and the issuing of identity cards to tens of thousands of immigrants to enable them to vote were why the opposition did not do better. Barisan has denied wrongdoing. The "phantom voters" have not been inde-Election Commission said there was no law against vote buying. "People are very angry," insisted Nicho las W.Y. Fung, PBS's assistant secretary general. Not enough, apparently, to vote

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Japanese consumers bank start to rein in the giving

A peculiarly Japanese custom that normally boosts consumerism has become the latest victim of the country's deepening recession.

Yesterday's White Day is a Japanese twist on what is ery much a western tradition: Valentine's Day. In Japan, Valentinc's is a strictly one-way street - custom has it that only women may give gifts to men. White Day comes exactly one month later and is the day

eturn the favour. But the romance of Valentine's Day has lost out to commercialisation. with female workers distributing out of a sense of duty dozens of giri choco - or "duty chocolates" - to their male coleagues. While these token gifts are small and cheap (typically costing Y300-Y500 -\$2.50 - \$4.20) the sheer volume has traditionally made this a profitable business for

One month later, men are required to at least treble the value of their Valentine's gifts when they return them. Hence, White Day counters at department stores tend to be stocked with more expensive goods (ranging from Y1,000 to Y4,000) than those for Valentine's.

But with Valentine's Day falling on a Sunday, there was less pressure this year for women to buy chocolates for their colleagues. And amid Japan's worst recession since the war, consumers' reluctance to buy meant that sales of giri choco dropped significantly.
At Takashimaya's flagship

department store in downtown Tokyo at the end of last week, dozens of businessmen were swarming around display cases piled high with brand name ladies' scarves, handker chiefs and accessories. While some were enjoying themselves, others looked harassed and most merely looked perplexed.

"I'm only buying a couple of White Day presents this year," said one 28-year old businessman. "After all, I didn't get as many guri choco this year. And although) usually increase the value of the gift threefold or fourfold. I don't think I'll be spending as much this time." Last month, anticipating

falling numbers of girl choco sales, retailers put extra effort into marketing more expensive chocolates under famous names such as Maxim's and Harrods. We put more emphasis on

pricier Valentine chocolate boxes for the special someone in your life," said a saleswoman in Takashimaya's confectionery department. "But even so, those sales didn't make up for the drop in giri choco sales." Whether chasing quantity

or quality, even the traditionally buoyant Valentine's period has turned into a massacre for Japan's

Foreign lending to China declines

Rahul Jacob in Hong Kong -

International bank lending to China fell sharply in the first three-quarters of last year, well before the collapse Trust and Investment Company (Gitic) caused broader concerns about the country's credit standing, according to figures compiled by the Basie-based Bank for International Settlements (BIS). The figures show that, after adjustment for

exchange rate changes, credit outstanding to China in the first quarter. The trend is a sharp reversal of the third quarter of 1997, when lending rose by \$5.2bn. Some economis Nicholas Lardy of the Brookings Institution in Washing ton, believe the swing in bank credit is one explanation for the failure of China's reserves to rise last year while it was running a current balance of payments surplus. But bankers in Hong Kong who have studied the details of the BIS figures caution that it is diffi cult to be sure exactly

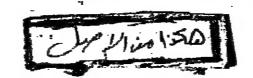
lay behind the swing. Because the BIS produces various sets of figures, some of which are adjusted for which exclude lending originating from banks outside the main industrial countries, it is difficult to be sure of the scale of the outflow of

credit. Before exchange rate adjustment, bank credit to China slipped to \$81bn at the end of September last year from \$90bn in December 1997. Bankers assume that this trend has continued through the first quarter of the problems at China's nonbank financial companies became apparent.

Some argue that pressure on bank credit flow may add to devalue its currency, but behind the fall in credit. One possibility is that Chinese entitles chose to switch borrowing from dollars to local age points in China last year. Another is that Japanese banks, whose capital adequacy ratios were squeezed by the weakness of the yen were withdrawing credit.

"It could be a bunching of Ioan maturities, It could be constraints on the Japanese banking system, but it's striking that it was accelerating before Gitic," said one

Another series of figures produced by the BIS shows lending by Japanese banks to China fell more than \$2bn to \$17.5bin in the first half of largest factor behind a drop of nearly \$4bn to \$58.4bn in lending by banks in industri:



ا هڪذا مذالا ميل



21.500

Afghan factions agree to share power

By Charles Clover in Asigabat,

Warring factions in Afghanistan agreed in principle yesterday to set up a broadbased government with a shared executive, legislature and judiciary - a big breakthrough in the country's 19- in 1994, and representatives tion's stronghold, the city of year civil war. But they did of the opposition coalition Mazar-i-Sharif, last August.

The decision resentatives of the Taliban, a shared government. the Islamic fundamentalist militia that has seized 90 per cent of Afghanistan's territory since it became active ture of the northern opposi-

announced after three days at negotiations over several both sides to the negotiating of negotiating in Ashgabat, years the two sides have Turkmenistan, between rep-never before agreed to form But many experts consider

the decision to be inevitable following the Taliban's cap-

Pakistan yesterday greeted

the deal. "It's a very good start for finding a negotiated solution to establish durable peace in Afghanistan," said Sartaj

Aziz, foreign minister.

puted city.

city, it said.

never accept the "division or

internationalisation" of the

Last week, the EU rejected

estinian officials in east

Jerusalem, which Palestin-

ians hope will become capi-

Israel captured and

annexed east Jerusalem in

Israeli-Palestinian agree-

At the weekend, Israel

campaign" through its diplo-

matic missions in Europe to

try to persuade EU countries

of its position on Jerusalem.

the 1967 Arab-Israeli war.

but its sovereignty has never

tal of a future state.

national community.

yet to begin.

Despite the breakthrough, em province of Samangan according to press reports. outlawed by the strictly reli-And both sides have been

once the winter snows melt in the mountains.

And despite elaborate displays of politeness by both sides at the press conference yesterday, held in the white marble UN building in Ashgabat, many subtle differ-

Beard trimming has been gious Taliban, along with

was Despite repeated attempts istan, which helped to bring making preparations to dancing, the education of resume large-scale fighting women, and even kite flying.

The future government according to Malvi Wakeel Ahmed Mutawakil, the Talihan's lead negotiator, would be "based on Islamic law and Islamic system of government".

According to Mohammed Yunis Qanuni, the spokesperson for the opposition, however, the future government would be "based on the respective representation of

about \$2bn, is dominated by

Israeli goods, while Jordan

says it only exported some

\$18m in goods to the

Palestinian merket. The issue has been a

sticking point in bilateral

Jordanians feel they have

not reaped any economic

dividend from their 1994

peace accord with Israel.

Israel savs trade has risen

months of 1998. But even

most of this trade is from

Further complicating

immediately reduce the

amount of water diverted to

Jordan from Israeli sources.

told Jordan it would

relations, Israel yesterday

from \$32.5m in 1997 to

\$42m in the first nine

Israel to Jordan.

relations, as many

Taiwan warns on Chinese satellites

By Muir Dickie

Taiwanese officials have warned that Chinese satellite launches and military modernisation could seriously threaten the island's security and that Taipei must improve its defences, warnings that are likely to heighten controversy in Washington over Sino-US technological co-operation.

Tang Fei, Taiwan's defence minister, said six ment in regional missile satellites that Beijing planned to launch next year could improve the accuracy of its ballistic missiles and allow detailed surveillance of Taiwanese defences, giving Beijing a "clear view into our very backyard and bedroom".

A senior official of the Mainland Affairs Council. which guides Taiwan's pol icy on China, said that it was possible that US companies had given a big boost to Beijing's development of satellite technology and that the island must upgrade its defences.

Other officials said Beijing's ballistic missile deployments were forcing Taiwan toward involvement in a proposed US-led theatre missile defence system (TMD).

aided by US companies' use puter warfare. of Chinese rockets to launch their satellites.

Analysts said the Taiwanese military could be hoping should be more co-operation to build support for extra defence spending and for involvement in TMD, a project that is of unproven strategic worth but is none the less likely to be extremely expensive. The remarks may also be

ington following reports of an escalation of Chinese missile deployments against the island and accusations that Beijing's agents have stolen US nuclear technology.

A poll released yesterday suggested widespread public support in Taiwan for involvement in TMD, with 85 per cent of those surveyed believing that the government should join such a regional security grouping.

Any Taiwanese involvedefence is anathema to China, which considers Taiwan a rebel province and has threatened military

Satellites that China plans to launch 'could allow detailed surveillance of Taiwanese defences'

action to prevent it formalising its de facto indepen-

In his remarks to a week The remarks went to the end conference, the Taiwanheart of two issues that have ese defence minister warned helped cause a recent sour- that China's military moding of Sino-US relations: Chi- emisation posed a growing na's expansion of its missile threat in areas ranging from forces and the extent to its development of cruise which its development of missiles to the expansion of missile technology has been its capacity to wage com-

Lin Chong-pin, vice chairman of the Mainland Affairs Council, told reporters there between Taiwan's government and high-technology

"Taiwan needs to increase its alertness. China can afford to retreat a step, but if we retreat a step, we'll fall

not manage to arrange a currently led by Ahmed ceasefire, which will be disceasefire, which will be disShah Masood, a legendary major step forward on a funmajor step forward on a funposition of a future governwhich still holds strategic Andrew Tesoriere, the acting ment in the next series of passes through the Hindu head of the United Nations talks near the end of March. Rush mountains. Special Mission to Afghan-Indonesia bank move Israel cabinet confirms

'a big breakthrough' claim to all Jerusalem By Sander Thoenes in Jakarta

Indonesia closed 38 banks and nationalised seven more at the weekend in what the International Monetary Fund hailed as a "decisive breakthrough" in reforming the country's banking sec-

After months of backtracking, and amid growing pressure from the IMF and World Bank, officials also approved a government recapitalisation of nine of

the largest private banks. This paves the way for a Rp300,000bn (\$34bn) government bond issue to help recapitalise these banks. along with seven state Hubert Neiss: move pewes w banks, 14 regional banks and 11 nationalised banks, due in

for Asia-Pacific, said that the or more. highly significant but compromised move prepared the ground for an IMF board meeting, at which the Fund would be likely to approve release of another tranche of its \$11.3bn lending package to Indonesia and consider boosting that loan to help fund the country's expected budget deficit in the coming fiscal year.

The government said that 41 banks, an unexpectedly large number, had managed to raise capital independently and join 32 banks



for release of further tranche of IMF lending package

Hubert Neiss, IMF director adequacy ratio of 4 per cent

This should take pressure recapitalising the private Subarto.

Bankers doubt, however, that the recapitalisation will be sufficient to restore lend-About Rp150,000bn in bonds, issued to state banks, is likely to carry an interest rate of 3 percentage points above inflation while the other half would be at 20 per cent, well below the current interest rate of 37 per cent.

That means the bonds can-

capital from higher deposit Non-performing loans are now a large part of loan

portfolios. Two banks which had been rumoured to have collapsed were recapitalised and another two were nationalised rather than closed, which leaves owners able to draw funds and drags out the process of repayment of loans to affiliated parties over four years.

Dennis de Tray, country director for the World Bank, insisted the decision on which banks to aid was made by applying normal guidelin

Other foreign experts involved added, however, that some of these rules were changed to allow for nationalisation of a bank in the Bakrie Group and a bank off the funds allotted to tied to former president

Originally there had been no plans to nationalise banks but the IMF and World Bank agreed to a takeing to the real economy. over of banks which had more than 80,000 accounts and large branch networks. ostensibly to limit the disruption of massive closures to the banking sector. Bankers and advisers

suggested this was a compromise to overcome government opposition to closure of

New industrial zone for Jordan

Israel fired another shot in a Israel, Jordan and the US over Jerusalem's status, will today in Washington when the cabinet yesterday launch a new industrial zone reaffirmed Israel's soverin which joint initiatives will eignty over the entire disbe eligible for duty-free

exports to the US, writes The cabinet said the EU's Avi Machlis in Jerusalem. position that Jerusalem is a However an ongoing trade dispute and a new dispute "corpus separatum", or separate entity, is legally incor-rect and "totally unacceptover water sharing may sour the atmosphere. able to Israel". Israel would

The qualifying industrial zone will be inside Jordan on the border with Israel in the northern Jordan valley. A similar zone already exists in Israel's request to prevent its the northern Jordanian city diplomats from meeting Palof Irbid.

Despite the co-operation, Jordan has accused Israel of blocking trade, especially to Palestinian-controlled areas of the West Bank. The Palestinian market, worth

been recognised by the interments in the occupied West releasing 100 Palestinian Bank was "very destructive to the pursuit of peace" a ments stipulate the city's somewhat tougher position status is to be determined in than the traditional US between the sides that have tlements an "obstacle to

Palestinian officials wellaunched an "information nis Ross, US Middle East peace envoy, but said the US administration must take steps against settlement building if it has indeed

political prisoners later this month, a move which could help thaw the frozen peace

process. Before Israel froze permanent status talks stance, which considered set- the peace initiative, it angered the Palestinians by releasing mostly criminals when it freed 250 prisoners comed the statement by Den- under the Wye accords. Israel claims the remainder had "blood on their hands" and were not eligible for release, but Israeli security experts say several hundred imprisoned Palestinians had



THE AMERICAS

IADB CONFERENCE HOPES OF BANKS INCREASING EXPOSURES

Brazil confident of hope for return to markets

By Hichard Lapper in Paris, Geoff Dyer in São Paulo and Andrew Balls in London

Some of Brazil's creditor banks are confident the country can raise money on the international capital markets before the end of next month. A rapid return to the markets, effectively closed to Brazil since last year, would further bolster confidence in the economy following last week's agreement by banks to maintain trade and interbank credit lines at existing levels until the end of August.

Bill Rhodes, the veteran who is co-ordinating the effort to help Brazil maintain bank lines, yesterday probability that Brazil could go back to the market as early as the end of April."

Mr Rhodes is also hopeful that banks will voluntarily increase their exposures if

of a revised deal with the International Monetary Fund (IMF). "As people see the economic programme take hold they'll begin to voluntarily increase trade and interbank lines," he

The DiF deal - the centrepiece of its. \$41.5bn international support package was originally agreed last October, but the devaluation of the Real in January and a resurgence of inflation made renegotiation necessary. In Brasilia, Luis Fernando

Piguereido, central bank director for monetary policy. Citibank debt negotiator said that the agreements with the banks would give us "considerable breathing space on the balance of payments for the next fewmonths". Trade and interbank lines have fallen to about \$28bn compared to between \$40bn and \$50bn in

International creditor banks verbally agreed to economic programme, existing levels last Novem- Page 20

announced last week as part ber, but eventually reduced their exposures as a result of continuing financial instability. Brazilian government representatives were due to meet Japanese banks today, following meetings last week in New York, London, Frankfurt and Paris.

As part of the agreement with the banks, the Brazilian authorities have established a system to monitor bank transactions. Speaking in London on Friday, Arminio Fraga, the governor of the central bank, said the Brazilian authorities would disclose aggregate interbank

Mr Fraga declined to comment on individual bank exposure, but said the reception had been positive. "The commitments are firm, but we have to deliver on our side. Providing we do what we have to do on our side, the banks will be there. If we deliver, everything will be

maintain credit lines at Brazil credit lines returning,

Funds power

By Richard Lapper

Fresh funds could soon beavailable for Latin American power, energy and road proects held up since last year because of the financial crisis in emerging markets. Darby Overseas Invest ments, a Washington ba company set up by Nichola Brady, the former US Treasury secretary, said this weekend that it was close to making the first investments from a \$500m mezzanine infrastructure fund.

"We'll be open for but pretty soon," said Richard Darby, who said more than \$200m had been raised so farfor the Fund, originally launched in 1997. "It was all started when the weather was better," said Mr Frank "Now it's rough, it is all the more important that there

The Andean Development Corporation, a Caracas ba financing institution, yesterday announced the commit ment of \$25m in equity and a credit facility for a similar amount. Last December the Inter-American Development Bank (IADB) finalised a 12year, \$75m loan, while carlier last year Banco Bilbao ner Kleinwort Benson, the European investment bank, each committed \$25m in equity. A separate European financial institution is expected to approve a further \$50m commitment to the fund soon.

"We've received requests. from over 50 potential chients and 19 projects have been advanced to the due diligence stage," said Mr Frank. Many project developers and companies had been caught in a "difficult" position because their sources of finance had dried up in the wake of debt default in Russia last August, and because of the sharp rise in yields on

emerging market debt. Darby aims to provide The report highlights the more moderate pace than in debt which offers a higher resilience of commitments to previous years. Labour and return than conventional structural reforms in the pensions reforms have also bonds or loans - to up to 25 owth slowed to an average region in the face of last remained high on the projects. Although more equity finance is available through funds such as the Scudder Power Fund, the AIG GE Capital Fund and the Caribbean Power Fund, debt finance is also required because of the long-term

projects Separately. Darby is increasing its commitment ican companies with the launch of a \$400m investment fund. Its first such 1996 and \$15.57bn in 1997, invested \$135m in 11 companies, including two banks.

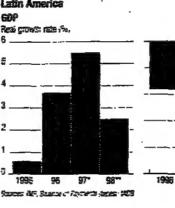
Recovery in capital flows seen this year

By Richard Lapper

Expansionary monetary policies and low interest rates in Europe, North America and Japan should prompt a recovery this year of capital flows to Latin America and other emerging markets, according to the annual report of the inter-American Development Bank, published today.

The report, however, warns that the possibility of new eruptions of instability cannot be dismissed" and says that reduced world economic growth and depressed commodity prices will "pose a major challenge to several countries of the region if macro-economic stability is

of 2.5 per cent in 1996, from 5 year's financial crisis. "The per cent in 1997, and is response to crisis has ... en- tries, widely expected to contract tailed a deepening of reforms maintained a "firm commitment to macroeconomic stability". Across the region fisequivalent of 0.8 per cent of large exchange rate depreciations were avoided. Infla- ing weak fiscal positions and tion averaged only 10 per cent over the region, the



Guyana - contracted in 1998. continued, although at a reforms, aimed at buttresseliminating inefficiencies. were initiated in Argentina,

same figure as in 1997, Only Brazil, Colombia, Ecuador two countries - Jamaica and and Mexico. Privatisation

agenda of a number of counfurther this year, mainly as in order to improve market rose by less than 1 per cent. a result of recession in Bra-functioning and modernise and when measured as a perzil. The IADB report says the state apparatus," it says. centage of GDP per head in that in spite of the slow- Governments maintained a the OECD countries fell from down, Latin America has commitment to economic 15.4 to 15.2 per cent. The character of infrastructure integration, leaving tariff region's total external rates unchanged except for indebtedness grew by 9.7 per. minor adjustments, and cent to \$696.5bn, even cal deficits rose by the increased their efforts to though direct foreign invest- to medium-sized Latin Amerstrengthen financial supervi- ment accounted for more gross domestic product and sion and regulation. Tax than half of private capital flows into the region. After increasing by \$26.98bn in fund launched in 1994 has

reserves fell by \$18.96bn.

US steel industry's campaign for quotas strikes a chord among the electorate

Last year, nobody thought the imports bill stood a chance in the House. Now odds are on passage. Nancy Dunne explains why

House of Representatives on the imposition of quotas on imports of foreign steel will be the climax to a seven-month industryunion campaign to "stand up" for US steel.

The drive was launched last September at a cost of \$3m-\$4m, when imports were pouring into the country. The deluge of imports left the port of 'New Orleans unprepared to store it and hot-rolled steel piled up in parking lots after warehouse

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Dr Craig A Rosen

space proved insufficient.
"No one expected then that quotas had a chance to pass the House," said Don Marshall, spokesman for Senator Jay Rockefeller, Now the odds are for passage and, given the momentum, the bill's backers believe it even has a chance in the Senate despite the threat of a presidential veto.

Polls show the campaign, with its snappy "stand up for steel" slogan, has won broad support among an electorate which, despite the healthy economy, is still made insecure by waves of iob losses.

In Congress, the legislation has bipartisan backing ity called on the White - over 200 out of 435 House members have signed up and 15 out of 100 senators. The support among Democrats is not remarkable, particularly after the help they received from the labour movement

But it is also coming from Meanwhile, campaigners "main street Republicans", drafted in supporters from said Bill Klinefelter of the all sides of the political spec-US Steelworkers union. trum - ranging from Pat "These guys go home and take the pulse of their communities. Polls show that people think trade agreements are not working for

not get through the Senate. its backers believe it will demand other assistance for US cities. steel - a change in law to

Buchanan, the nationalist presidential candidate, to former Congressman Sam Gibbons, a free trade advo-To create a sense of

Even if the legislation does urgency, steelworkers, sometimes with their allies in the motor and mechanics give them leverage to unions, staged rallies in 48

Three big assemblies in

'Polls show that people think trade agreements are not working for them'

West Virginia Democrat. make it easier for the industry to win protection against

import surges or a steel lic-The "stand up for steel" campaign was designed and

co-ordinated almost like a political campaign, said Michael Petruzzelo, US chief executive of Shandwick International, a British public relations company. Television and print adver-

tising spots informed Americans there was a crisis. A second wave of public-House to act. Although the ing a case against quotas. White House resisted calls Daniel Griswold of Cato for quotas, it did agree to Institute a libertarian think Organisation. speed up antidumping inveszil and Russia and, after prethree guilty of dumping.

Washington sent thousands of workers to Capitol Hill to lobby their congressmen. The message was the same: the steel industry would be the first industrial domino to fall. If the US lost its steel industry, what would be

"We had to break through a clutter of other issues," said Mr Petruzzelo, "The day we announced our [industryunion] coalition, Starr delivered his report to Congress." Against this tide, free traders have had difficulty mak-

tank, argued before the threatened by the increase felter.

in imports. Imports of steel 1998 and had been declining since, he said.

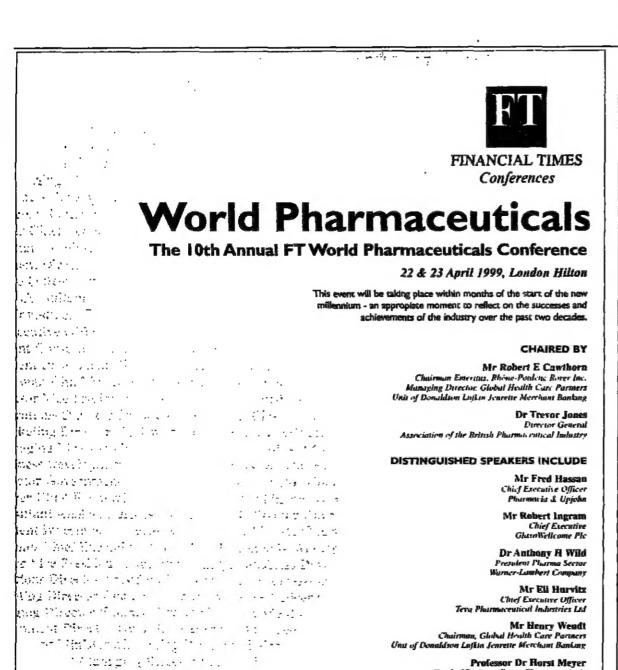
The US industry had recorded its second highest level of production in the last two decades last year, he said. Eleven out of the top 13 companies made operating profits for the year, as did nine out of 13 in the final

"The big steel companies and their unions point to the 10,000 jobs that have been lost in the industry in the last year, but that number... [is] relatively small when compared to the 2.5m net new jobs created in the whole US economy in 1998," he said.

But in a glossy pack handed out to journalists, the steelworkers respond with colour charts showing "deeply depressed" levels of capacity utilisation, "imports from key Asian countries dramatically above pre-crisis levels", and the import share of the market -25.2 per cent in January still above the 23.8 per cent and 23.3 per cent shares in

1997 and 1996 respectively. The robustness of the US economy did not hurt the campaign, said Mr Marshall. The crisis stood out in contrast to the rest of the economy." Nor does the contention that quotas would be "illegal" in the World Trade

"The only legality I recogtigations against Japan, Bra- House trade subcommittee nise are US laws. No extrathat the viability of the territorial body will tell us liminary study, found all domestic industry was not what to do," said Mr Kline-



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31364FGZ8		6.0007	MTN	06/28/02	50.00	(10.4)
31364AZN		6.150°c	MIN	07/01/02	179.00	(10.4)
31364BKU		6.0907	MTN	07/01/02	23.10	(10.4)
31364C2C1		6.410%	MTN	07/08/02	150.00	(10.2)
31364C2M3 31364C3B2		6.230%	MIN	07/15/02 07/18/02	200.00 200.00	(10.0)
31364C3L0		6.260%	MTN	07/22/02	200.00	19.91
31364C3W		6.240%	MIN	07/29/02	200.00	19.71
31364C4D7		6,150%	MTN	08/06/02	125.00	(9.6)
31364C4R6		6.220%	MTN	08/12/02	100.00	(9.4)
31364C5J3		6.300%	MTN	08/19/02	100.00	(9.3)
31364C6M		6.230%	MTN	08/28/02	100.00	(9.1)
31364FCG- 31364FCV1		6.090° 2 6.130° 2	MTN	09/30/02 10/07/02	200.00 103.00	(8.3) (8.2)
31864FCX7		6.0607	MTN	10/08/02	250.00	(8.1)
31364PDF	5	5.900%	MIN	10/10/02	250.00	18.1)
31364FDR9	€ .	5.950%	MIN	10/16/02	200.00	(7.9)
31364FED9	9	6.170%	MTN	10/21/02	100.90	(7.8)
31364FEM	9	6.100%	MIN	10/21/02	50.00	(7.8)
31364FEU:	1	6.0803	MTN	10/23/02	125.00	(7.8)
31364FFB2 31364CEH		6.210°E 6.830°C	MTN MTN	10/28/02 11/01/02	200.00 50.00	(7.7) (7.6)
31364FFQ9		6.0007	MIN	11/04/02	200.00	(7.5)
31364PFW		5.890%	MTN	11/06/02	300.00	(7.5)
3135865W5		7.050%	DEB	11/12/02	300.00	(7.3)
31364FGE		5.9807	MTN	11/12/03	200.00	(7.3)
31364BNC		6.090%	MIN	12/02/02	400.00	(6.9)
31364BSQ4 31364AXY3		5.730%	MIN	01/06/03	50.00	(5.1)
31364CDD7		6,000% 6,710%	MTN MTN	03/11/03 05/21/03	85.00 200.00	(3.7)
31864AZT2		6.050%	MIN	06/30/03	175.00	(L1)
31364BKT		6.130%	MTN	07/01/03	23.10	(1.1)
31359CAF2		5,450%	DRB	10/10/03	500.00	1.2
31364CMB		6.840%	MTN	10/15/08	50.00	1.3
31359CAK1		5.800%	DEB	12/10/03	765.00	2.5
31359CAP0		6.850%	DEB	04/05/04	400.00	2.7
31364CC30 31364CM47		6.970% 6.740%	MTN	04/08/04 05/13/04	\$0.50 100.00	2.7 3.2
31364CQ43		6.790%	MTN	06/02/04	100.00	3.4
31364CW38		6.480%	MIN	06/28/04	200.00	3.8
31364AJH6		8.625	MTN	06/30/04	25.00	3.8
31359CAT2	2	7.400%	GLB	07/01/04	1,500.00	3.6
31364C2Z0 31364FCK5		6.360%	MIN	07/19/04	100.00	4.1
31364C5A2		6.210% 6.310%	MTN	10/01/04 11/01/04	150.00 60.00	7.0 7.4
31359CBG9	•	7.875%	GLB	02/24/05	500.00	8.9
31364BAL4		7.490%	MTN	03/03/05	75.00	10.0
31359CBH7		7.650%	DEB	08/10/05	400.00	- 10.1
31364BAV2		7.350%	MTN	03/28/05	150.00	10.3
31364BBD1 31364BCT5		7.375%	MTN	03/28/05	250.00	10.3
31369CBN4		7.1607 6.350%	MTN DEB	05/11/05 06/10/05	250.00 400.00	11.9 12.3
31364BED6		6,630%	MTN	06/20/05	50.00	12.4
31364BEK2		6.4407	MTN	06/21/05	150.00	12.5
31364AMT		8.900%	MIN	06/30/05	10.00	12.6
31364BGV8		6.7204	MIN	08/01/06	150.00	13.0
31364BHY9 31364BJE1		6.850% 6.820%	MTN	08/22/05	150.00	13.3
31364BJZ4		6.770%	MTN MTN	08/23/05 09/01/05	200.00 100.00	13.8 13.4
31339CBU	3	6.560%	GLB	09/12/05	500.00	12.5
31364BLK4		6.4009	MTN	09/27/05	200.00	13.7
31364BLY4		6.540%	MTN	10/03/05	200.00	13.8
31364BQC7 31364BQW	ė.	6.140%	MTN	11/25/05	100.00	14.5
31359CCD5		5.940°2 5.875°#	MTN GLB	12/12/05 02/02/06	200.00 1,000.00	14.7 13.4
31364BVS6		5.8754	MTN	02/14/06	100.00	15.6
31364BWM	8	5.800%	MIN	02/22/06	200.00	15.7
31364BYF1		6.410%	MTN	03/08/06	200.00	15.9
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March 12, 1999

Infiltration of Lloyd's by crime syndicates 'foiled'

By Andrew Bolger, Insurance Correspondent

Lloyd's last night said attempts by US crime syndicates to infiltrate the London-based international insurance market had been foiled, following one of the UK's biggest financial fraud inquirles in recent years.

Several British brokers' firms have been raided in an Anglo-American investigation into an alleged multi-million pound swindle involving organised crime and a number of reinsurance offshore in the Caribbean.

David Gittings, Lloyd's director of regulation, said: There is no evidence that American crime syndicates have infiltrated the market: indeed the timely action by

and ourselves has prevented this happening. It is not anticipated there will be any losses sustained [by Lloyd's] arising from this fraud, which has been stopped at an early stage."

The fraud is thought to involve bogus US insurance cover aviation and shipping companies and Third World governments against losses from natural disasters, air crashes and shipwrecks. Police are investigating

claims that the fake companies rent property and other assets from legitimate companies in order to give the appearance they have the resources to pay off multi-million pound claims. Premiums are collected, but when a large claim surfaces,

authorities in the US and UK the bogus company is liquidated, leaving the client

Detective-Superintendent Ken Farrow, head of the City of London fraud squad, said: "Over the past 10 years there have been several instances of major catastrophes, where claims have not been fully companies that offer to settled because the rented assets could not be used to cover claims."

No charges have been brought as a result of inquiries led by 50 detectives from the City fraud squad involving officers from the Kent, fraud squad actually makes Norfolk and Suffolk forces. They have studied thousands of documents at Lloyd's. The raids were the culmination of a four-month the scale of the possible investigation. Operation traud, which one report Chain, involving the US Internal Revenue Service.

most of the country.

Footpaths are often his

toric rights of way and need

to have been in use for at

least 20 years to be sacro-

sanct. Some landowners open up paths on their land

voluntarily or agree on access to their fields, but

others object to paths going

The Ramblers Association,

a walkers' pressure group,

recently took one wealthy

estate owner to court for

blocking a footpath with metal barriers and barbed

"Almost a quarter of

Britain's priceless network

of rights of way are blocked

or impassable at the

moment," the association

The new proposals would

open up areas of wild coun-

tryside to walkers. The 1.2m

hectares proposed consists of land classed as mountain.

moor, heath and downland

covering 8 per cent of England and Wales.

The proposals also include

enshrined in ancient stat-

utes and covers 3 per cent of England and 8 per cent of

Ramblers would not be

allowed access to private

gardens, golf courses, land

under development, railways

or cultivated land - even

when it is ploughed up in

winter. Landowners would

also be able to close their

land for up to 28 days a year.

land to be opened would

have to be mapped first and

local agreements put in

place. Rambiers fear this

the principle of opening up

this land, but concerned

"We are very pleased with

could take too long.

The government says the

across their land.

regulators at Lloyd's and the Financial Services AuthorWhite

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Lloyd's said: "We believe that it is the false use of Lloyd's security as an insurer which is being investigated. It is apparently a third-party fronting opera-tion. It is the policyholders who would have suffered

"As far as we are concerned, no Lloyd's under writers are in line for charges, but until the City charges and lays evidence,

we don't know." Neither Lloyd's nor the City police would quantify suggested could exceed £100m (\$161m).

BMW may build new Rover plant in \$2.7bn investment

By John Griffiths In London

BMW has plans to build a new plant for its Rover subsidiary at Longbridge in the English Midlands as part of a £1.7bn (\$2.7bn) investment that would draw a line under the UK car plant's troubled 30-year history.

The go-ahead to scrap the old plant and rebuild on the site depends on a decision expected from the German carmaker later this month to produce a new family of medium-sized cars at Longbridge to replace Rover's 200 and 400 models.

In the biggest single investment ever considered for Longbridge, all existing assembly halls, car body production, paint and other facilities would be replaced with new buildings and new, mainly German-supplied. equipment. This would include the multi-million pound body-framing and welding stations that now lie at the heart of achieving

high vehicle quality. The :£1.7bn investment would include model development and will be dependent on the UK government confirming it is prepared to provide £200m of that sum in aid to the project.

Companies such as ABB. Siemens and other big German-based suppliers stand to be the beneficiaries of a production revolution at Longbridge. It stems from BMW's determination to stamp out the perception of poor productivity and possibly ques-

tionable quality. Rover executives were reluctant to talk about details of the project at the weekend, fearful that something may yet go wrong to BMW's supervisory board on Thursday from giving final approval to Longbridge, near Birmingham, as the site for the project.

"But provided we get it, we'll be in a position that's just not happened at Rover. or BL or British Leyland for more years than anyone can remember," said one person close to the project. "In the past there's been money for a new car, or some new facilities, but never, ever at the same time."

A similar approach has been employed, at a cost of £800m, to bring the new Rover 75 into production at Rover's Cowley plant near Oxford. The Cowley project is much smaller, however, with envisaged output of 150,000-200,000 cars a year compared with up to 500,000 for the new models at Long-

Ramblers step out on new path to rural controversy

Proposals to expand the 'right to roam' please walkers but anger farmers and landowners, says Deborah Hargreaves

alking in the countryside for leisure is a great British pastime which sees the inhabitants of towns fleeing at weekends to march along the footpaths of rural England, Many leisure tracks through woods and fields are open to the public today because they were established as local communication routes for farmers and villagers centu-

But farmers and landowners do not always relish the prospect of ramblers tramping their pastures and have responded angrily to government proposals that would extend the right to roam over an additional 1.2m hectares of countryside in England and Wales. Scotland

has separate access laws. "There is no right as yet; these are just proposals. But we're worried people will they can they like," said the Country Landowners Association, which represents farmers and owners of country estates including the aristocratic proprietors of some of the nation's finest land-

"Farmers in Cumbria [north-west England] and Wales are particularly vulnerable because lambing has started." an official said.

access to the countryside for many years. Walkers are currently entitled to roam across nearly 2m hectares of national parks that were created in 1949 for environmental and recreational purposes. The parks are generally areas of outstand-



Green and pleasant land: set for

Ramblers' groups have Planning rules in these areas been pushing for wider are very strict and development is kept to a minimum. In addition, there are 340,000km of footpaths, often across land owned by the National Trust, the 100-yearold charity dedicated to preserving Britain's landscape

about the timescale for For example, the National implementing it," says Nicky ing natural beauty, but can Trust maintains the coastal Warden of the ramblers' include towns and villages. footpath that runs round Clinton and Adams to meet

By John Murray Brown in Dublin and Gautam Malkami

Gerry Adams, the Sinn Féin president, has been called to a hastily arranged breakfast meeting with President Bill Clinton, as the US administration signalled a growing involvement in brokering an end to the dispute threaten-

Friday peace agreement. Mr Adams has been forced to pull out of a St Patrick's beginning March 29. Day event in Georgia to Wednesday ahead of the

added to speculation that Mr "pushing the peace process Clinton may use Wednesday's St Patrick's Day reception to press Sinn Féin to make a gesture on arms to allow progress to be made on implementing the peace

on N Ireland arms deadlock

taken on an added importance with the UK government's decision to postpone assembly until the week necessary to work together". beginning March 29. Mr Trimble said: "Most of

Sinn Féin took an advermeet with Mr Clinton on tisement in The New York next week and there may be Times last week to castigate main White House reception David Trimble, his Ulster the US administration." for unionist and nationalist Unionist opponent and the noliticians. The move has province's first minister for Editorial Comment, Page 15

to the brink" Mr Trimble in turn used The Washington Post to

launch a counter blast

against Sinn Féin.

Mo Mowlam, the Northern Ireland secretary - writing This week's events have in yesterday's Independent on Sunday newspaper - said the Washington meetings could "serve to lessen their ing Northern Ireland's Good the devolution of powers to distrust in each other and the new power-sharing help build the confidence

> us will be in Washington some useful meetings with

Parties clash on Scottish tax plan

By Brian Groom

party leaders traded accusations over the Scottish National party's proposal to spurn chancellor of the Exchequer Gordon Brown's, tish parliament on May 6. income tax cut and spend the money on health, educa-

tion and housing. The pro-independence SNP seized on an admission by Donald Dewar, the Scottish prepared to use the Scottish start. parliament's tax power "at

the right time and when it is basic rate at 23p for four tish Lobby. Mr Dewar admit-

But an opinion poll taken The war of "Scotland's after last week's Budget, and penny" was under way with published yesterday, showed a vengeance yesterday as the SNP trailing Labour by 15 points - a gap the party must close if it is to stop Labour coming out on top in the first election to the Scot-

All sides see the SNP's high-risk decision to invoke the parliament's power to vary the basic rate by up to 30 as the defining moment in the election, although formal secretary, that he would be campaigning has yet to

The SNP's plan to keep the

whelmingly at the party's conference in Aberdeen on Saturday, but some senior figures privately are deeply

worried. They fear it will penalise the less well off, alienate rural voters who already face higher petrol costs, and distract attention from the independence case. Rightwingers fear it is the crossing of the Rubicon to a hightax policy.

Mr Dewar met Alex Solmond, the SNP leader, in a live television debate yester-

years was endorsed over- ted Labour might use the power "if the situation justipower fied it, but not when wallocating £4bn (\$6.4m), in addition, in the next three spending.

The basic now". He believed "the vast majority of people in Scotland would rather have more invested in education, health and housing than a penny bribe from the chancellor of the Exchequer".

Apart from the SNP, the Scottish Liberal Democrats are prepared to raise Ip day on BBC Scotland's Scot- income tax for education.

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TRW \$0.33 **■ TOMORROW**

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Chase Manhattan Sb FRN 2009 \$134.38 Christiania Bank Sb FRN 2001 \$270.24 Export-Import Bank of Japan 91/2% Gtd Bd 1999 \$475.0 HK&Sh Bkg Crp Prim Cap Undated FI rate Nts (2nd Series) US\$68.75 Nippor Light Metals 5.6% Bd 2000 Y560000.0 Welsh Water Utilities Fin 71/4% Gtd Bd 2004 £71.25

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Abbey National Treasury

UK COMPANIES

■ TODAY

COMPANY MEETINGS: Environmed, 62. Threadneedle Street, E.C., 10.00

Rank Fin 71/4% Gtd Bd Mar Highland Timber, 30, Lombard Street, E.C., 12.00 2008 £72.50 Scottish Eastern Inv Tst BOARD MEETINGS: Stagecoach 1p Finals: Sumitomo Chemical 6.4% ASW **Bovis Homes**

Bd 1999 Y640000.0 Sumitomo Realty 6.15% Nts Burford 1999 Y615000.0 Ennstone Do 6.2% Nts 2000 Eurotunnel Y620000.0 Glanbia

FRIDAY MARCH 19

6%% Gtd Nts 2002 \$63.75

Albion 2.5p BPI Cap Fin Ser A FRN N/

BTM Fin (Curacao) 71/4%

Gtd Bd 2006 \$71250.0

Japan Airlines 5.6% Bd

Vtg Pf \$0.45

Heiton (R3p

0.88p

2003 Y560000.0

American Int \$0.058 Anglo American Corp of South Africa R2.75 BPI Cap Fin Ser B Step-up FRN N/Vtg Pf \$0.39 Birmingham Midshires Bldg Scty FRN 2000 £155.15 Foreign & Colonial Inc Grwth Fosters Brewing A\$0,055 Gold Fields R0.50 Henderson Smaller Co's Inv Tst 1.5p NT & T 10%% Bd 2001 C\$102.50

Taisei 3.8% Bd 2001

Vodafone 71/2% Nts 2004

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Infobank Int Laporte NSB Retail Systems Natural Building Materials Ruberoid Sharpe & Fisher Spirax-Sarco Ugland int Wellington Interims: Benchmark Jourdan Superscape VR ■ TOMORROW

> COMPANY MEETINGS: Shani, Marriott Hotel, 10, Grosvenor Square, W., 12.00

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Clydeport DCS Devro Gibbs & Dandy Hepworth Oriflame Xaar Interims:

Smiths inds THURSDAY MARCH 18

COMPANY MEETINGS: Asset Management inv Co, 32, Ludgate Hill, E.C., 12.00 Brunner inv Tst, 20, Fenchurch Street, E.C.,

12.45 **Domino Printing Sciences,** Trafalgar Way, Bar Hill, Cambridge, 11.00 Lonrho, Town Hall, Hornton Street, Kensington, W., 11.00

Securicor, ironmongers Hall, Barbican, E.C., 11.00 Shires Smaller Co's, Trinity House, Tower Hill, E.C., 12.00 BOARD MEETINGS:

Churchill China Cobham Dialog Dunedin Inc Grwth Inv Tst Fisher (James)

Hanover Int Kwik-Fit Laing (John) MDIS

McAlpine (Alfred)Mithras Morrison (Wm) National Express Trinity

Town Centre Sec FRIDAY MARCH 19

BOARD MEETINGS: Final: British Telecom Interim:

Fortnum & Mason

Interims:

Thorpe (FW)

Company meetings are annual general meetings unless otherwise stated.

Please note: Reports and accounts are not normally available until approximately six weeks after the board meeting to approve the

preliminary results.

This list is not necessarily comprehensive since companies are no longer obliged to notify the Stock Exchange of imminent announcements.

CONFERENCES, VENUES AND COURSES

Europe

CONFERENCES

MARCH 18& 19

MARCH 18& 19
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Distinguishel speakers include:
Professor Marlo Monti, Member of the
European Commission: Mr Kees van
Rees, Managing Durector Shell Pensions
Fund, Chairmin. European Federation
of Retirement Provision; Mr Martin
Jack. Director of IBM Retirement
Funds, EMEA IBM UK Lid; Mr Bruce
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Friday, 14th May

Kry Note Addresses

SUSTAINABILITY OF MONETARY.

AND EXCHANGE RATE POLICIES

Chired by Vitor Pessoa

Secretary for Economic Co-ordination

Dai Xianglong-Sovenor

People's Bank of China (expected)

Anjonio de Sousz-Governor

Hon Kong Monetary Authority

Edvard A. J. George-Garant

Sheemitsu Sugisaki-Deput Ma

SOUNDNESS OF FINANCIAL SYSTEMS

Garriel Singson Governor

Bankof Thailand

CONCLUDING REMARKS

M.I. Chatu Mongol Sonakul German

Saluya Fujiwara Deputy Governor

Maia Manuela Morgado Ch

tary and Foreign Exchange Authority of Macan

Saturday, 15th May

Opin Technical Sessions

Fortegistration & inquires, please

connect the conference secretariat:

Barr of England

Banfol Portugal & Governing Council, ECB

Joseph Yam Chi-Kwong Chief Essentive

Canning House Conference Brazil: Current Economic and

MARCH 24

Political Outlook
Pollowing recent economic events in
Brazil, the conference will seek in analyse
the consequences, internal and external for Brazil's financial progress. High level British and Brazilian speaker: include: ex Brazilian Trade & inclustry Minister, Amerada Hess, Schroders, Threadneedle, Banco Pactual, Banco Bilbao, Vizcaya, Pinheiro Neto Advogados. Tel: +44 171 235 2303 Pax: +44 171 245 0996

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Central & Eastern European Power Industry Forum High-level forum for ministry officials. utilities, advisors, investors analyzes gas and electricity sector co-operation. project fisancing, privatization,

"Energy Regulation and Energy Trade" Pre-Conference Semmar March 29. Venue: Sherarou Hotel Contact: PennWell Publishing UK C&E Tel: 44 1708 342222 Fax: 44 1708 379344

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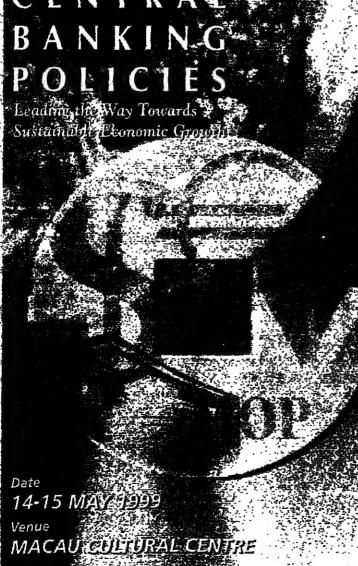
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INSIDE TRACK

PROFILE PAUL AND ANDRE DESMARAIS, CHAIRMAN AND PRESIDENT OF POWER CORPORATION, CANADA

ealing in dynasties

Despite its old-fashioned approach, the family-run conglomerate is one of Canada's most successful companies, writes Edward Alden

brothers in an age where both businesses are out of favour.

Perhaps it is the exception that proves the rule. In Canada, where it has big insurance and mutual fund interests, Power Corp is often held up as a metaphor for the nation: its impact has been far out of proportion to its size, yet it is reluctant to boast of its accomplishments.

Paul Desmarais Sr acquired the bolding company in 1968, and through a series of acquisitions and well-timed sales, market capitalisation grew from C\$61m (£25.4m) to nearly C\$8bn today. It is one of the largest corporations in Canada, with assets of more than C\$120bn under its control in Europe, China and North Amer-

The only hint of the role played by Mr Desmarais Sr in opening China to Canadian investment is in the intimate dining room at Montreal, where original prints from a 17th-century Chinese manuscript adorn the walls.

The prints were a gift from Bo Yibo, one of the "immortals" from China's Long March, and Chairman Mao's head of economic planning. Mr Bo spent a week at the Desmarais country estate near Quebec City in 1978. Washington to brief Richard China. Mr Nixon's visit is usually thought to have opened up diplo-

Groomed for the job: after

Montreal and the European

Institute of Business

education at McGill University in

Administration in France, Paul Jr

became director of planning for

Power in 1981, a vice-president

assistant to the chairman in 1981

in 1982, and chief operating

officer in 1986. André was

educated at Concordia in

Montreal, became executive

and headed several Power

from his brother as chief

subsidiaries before taking over

Power Corporation of before the US president set foot in Beijing, Pierre Trudeau, Canada is that deeply in Beijing, Pierre Trudeau, Canada is that deeply unfashionable thing: a da's then premier, had already ing, specialty minerals, utilities diversified holding run by two brothers in an age where both later, Mr Desmarais, a legendary conglomerates and family-run deal-maker, headed Canada's first trade delegation there.

The Desmarais clan is even more influential in national politics. After a separatist government first came to power in Quebec in 1976. Power Corp halted new investments in the province and strengthened its ties with the Quebec federalists who dominate the Canadian government.

No other Canadian company enjoys closer relations with the Liberal government of Prime Minister Jean Chrétien. Paul Martin, finance minister, made his fortune at Power Corp, and John Rae, Mr Chrétien's campaign manager, is among the company's top executives. In addition, Andre, one of Mr Desmarais's sons, is married to Mr Chrétien's daughter France.

Mr Desmarais Sr. now 73, handed over the day-to-day running of the company to his sons Power Corp's headquarters in three year's ago. Paul Desmarais Montreal, where original prints Jr, 44, and André, 42, became chairman and president respectively, and are co-chief executives. Their father, however, remains a significant influence behind the scenes. He still controis a majority of Power Corp's

voting shares. The challenge for Paul and André has been to keep shareafter falling ill on his way to holders happy with the company's complex holding structure Nixon before his historic trip to and diverse portfolio of investments at a time when many investors want pure plays. In Europe, where Power Corp

Essential Guide to Paul and André Desmarais

operating officer in 1991.

Frère Group, which formally extends to 2014, is cemented by

the Frère family empire, is a

godfather to one of Paul Jr's

children. André is married to

Canadian prime minister Jean

Chrétien's daughter France. (*1

years ago that he would become

knew when I married her 17

prime minister," he quips.)

Family connections: the aliance

between Power and the Belgian

more than just business interests

Albert Frère's son Gerald, heir to

and oil. Pargesa, a Swiss subsidiary jointly owned with Albert Frère, the Belgian financier, has acquired a 50 per cent stake in CLT-UFA, one of Europe's big-gest broadcasting companies. It owns a majority of the French specialty minerals giant Imétal, which bought the UK-based English China Clays for £756m earlier this year.

Pargesa is also a big share-

The brothers do not seem inclined to change their father's winning strategy

holder in the French utility Suez Lyonnaise des Eaux, and in TotalFina, the oil merger between Total of France and Belgium's Petrofina.

With no debt and C\$3m in cash, Paul and André say they are eyeing further acquisitions in

Since taking the top jobs, the brothers have begun to put their mark on the company. In 1997, they engineered the C\$2.9bn takeover of London Life, one of only two publicly quoted insurance companies in Canada, stealing the prize away from Royal Bank, the rival bidder. Canada and the US generate between China and the west. But began investing in the 1980s, most of Power Corp's earnings

Sibling rivalry: most power

sharing among chief executives

ambition, and brothers could be

expected to cross swords more

acknowledges that "the emotion

factor is exponential" in a family

company. But he says they have

found a clever solution. André

so they rarely see each

handles the China business and

than usual. While the two are

remarkably amicable, Paul Jr

falls on the sword of personal

through majority-owned subsidiaries Great-West Life, majority-owned Canada's largest insurance group, and Investors Group, the largest mutual fund company.

The Desmarais approach is deceptively old-fashioned: the brothers buy large blocks in companies they think have excellent long-term growth prospects. Power Corp is an "active shareholder", says Paul Desmarais Jr. it chooses or influences the choice of top managers and shapes the strategic decisions of the companies it holds. The formula, he says, has produced steady returns with relatively low risk compounded annual earnings have grown by 15 per cent a year over the past five years.

In addition to their investment philosophy is the Desmarais approach to business relationships, epitomised by the alliance with the Frère Group. The brothers believe in finding strong local partners and nurturing the relationship.

Andre Desmarais says: "An important thing for any family-controlled company is to be able to work through partnerships, because every culture is different. There are always things you have to learn and having partners is very helpful,"

The search for the right partner in China partly explains why Power Corp took so long to invest there. While Power Corp has cultivated ties with top Chinese officials since the 1970s. it studied and rejected several investment opportunities before deciding last year on a joint venture with Bombardier and China's National Rail Company to build mass transit railcars in

André Desmarais says it took a long time to understand how to do business in China, but that patience has brought its rewards. In Europe, Paul Desmarais Jr says the company has benefited immensely from its familiarity both French and

English-speaking cultures.
"In Canada we are bilingual, but more than bilingual, really bicultural, at ease with our British heritage and our French heritage," he says.

The brothers do not seem winning strategy, yet they are conscious that the record of dismal. Eaton's, once Canada's And he disposed of Montreal succession has been the careful probably will."



chain, was driven to bankruptcy by the incompetence of Eaton heirs. The Southams, once the country's most powerful companies, continues to trade at amount of responsibility given up newspaper family, were bought a discount to its underlying out in 1996 by Conrad Black. And assets, reflecting shareholders' Edgar Bronfman, helr to the desire for more focused Seagram fortune, has been profitable liquor business on high-risk film and recording months ago.

BUSINESS TRAVEL TURKMENISTAN

most successful department store. Trust the same year, shortly way he and his brother have before the entire trust industry collapsed in Canada.

Power Corp, like most holding on for a long time and the investments. Paul Desmarais Jr was briefly at a premium six

We take a long-term view of . Paul and Andre will have to this. If you're a long-term about his father being given prove they have inherited their shareholder of Power Corp, do credit for the London life deal, father's sense of timing - Mr you really care? You will think even though he was then Desmarais Sr sold his pulp about whether this company has inclined to change their father's and paper company, sustainable earnings and Consolidated Bathurst, for a 50 sustainable franchise positions. Linow Paul, when Pm ir beaven per cent premium in 1989, just André Desmarais says the best

been eased into their jobs. "This transition has been going by my father took a lot of

courage," he says. Paul and Andre concede that as long as their father remains criticised for gambling his is senguine, noting that the stock the controlling sharsholder, people will continue to believe he still calls the shots.

Paul Jr is good-humoured recovering from a heart operation. "My father joked: 'You' family dynasties in Canada is before the pulp market soured, insurance against a failed you know something, he



Scary truth about laughter

You laugh automatically when the Queen makes a feeble pleasantry. And it's the same thing when your boss makes a joke at work

How much do you laugh at work? I bet you'll say you don't laugh much. Work, after all, is not particularly funny. Indeed, the sight of a few colleagues wearing those idiotic red poses on Friday was enough to remind most sensible people just how unfunny work really is.

But if someone actually measured how often you laugh in the office, you might be surprised. We laugh a lot more often than we think we do. Laughter at work has precious little to do with being amusing, with joking, or with fun of any sort. It has everything to do with office politics. Which is to say it is all about power. Think of the Royal Family.

These unfunny, uptight people actually make people laugh more easily than the professional comedians Rory Bremner and Dawn French put together. The Queen only has to make the lamest pleasantry on an official visit and everyone convulses. They laugh not because they are remotely amused but because they are nervous. She is more powerful than they are.

The same thing happens every day in offices everywhere. When your boss makes a joke, you laugh without thinking. The more senior and the more scary the boss, the greater your mirth. It is not that you are a sycophant, it is that you understand the system.

Making a joke yourself is a much riskier matter, as I have often found. You listen to your seniors' jokes and falsely conclude that general jocularity

The role played by jokes in the pecking order seems not to be understood by the communications experts, who generally advise the more the merrier. They will tell you the problem with most offices is that

industry that makes good money out of laughter workshops. But the truth is otherwise. Consider an evening recently endured by managers of a leading retailing group who were being introduced to their new chief executive. After the meal, he suggested everyone should tell a joke. Far from being a cheery bonding session, this turned into an exercise in divisiveness: some jokes got big laughs, others fell

humiliatingly flat. We need to understand 'humour" better at work. The flatter the hierarchy, the more complicated things are. A good rule of thumb is that if people listen to you and laugh at your jokes, you are going somewhere. If not, then you're not.

I am all in favour of employee share ownership. I have owned Pearson shares for many years and can think of not a single bad thing to say about the

experience. Quite simply, I have got richer and richer and richer. Hard to argue with that.

is welcomed. You make a joke. In last week's Budget, Gordon Everyone ignores it. Disaster. Brown tinkered with the rules to make it easier for companies to offer shares to their employees. Everyone agrees this is a good thing. To own shares is meant to motivate you. It is meant to make you feel better about your employer. It is meant to destroy that "us and them" feeling. there is not enough laughter in them. There is a whole training

But I suspect this is wrong: owning shares makes employees feel good only when prices are going up. The market has been rising for so long - 17 years, more or less - that few of us can remember what it felt like before It is a fantasy to think that



owning shares in your company motivates you. What it does is turn you into a financial speculator who looks up their shares in the newspaper.

For employees with no other savings, best advice would be to trade the shares in your company for those in another; to have your salary and your savings coming out of the same basket does not make financial sense at all.

I've got an exclusive. It is the latest theory on corporate strategy from McKinsey. I hope you'll agree it's a cracker. Here it is: "The best strategy for any company is a strategy it can implement." That is the summary of an article in the

brand new McKinsey Quarterly. Having come up with this startling view, the consultant h ubjected it to a thorough McKinsey testing. Companies across a wide range of industries have been picked on, and complicated tests run to see whether the theory stands up. And guess what? It does! Strategies that companies are unable to implement turn out not

to work! That is not all. Companies dreaming up strategies do better if they have given some thought to the things they do well. That theory turns out to stand up, too. And here is a theory of mine: good strategies are better than bad ones. I wonder if McKinsey would like to test that?

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A transformation just waiting to happen

Stewart Dalby visits a country which has yet to fulfil its dream of becoming the new Kuwait

Not long after Turkmenistan gained independence from the Soviet Union, Saparmurat Niyazov, president, declared that within 10 years the largely desert country of 4m people would be

the new Kuwait.

However, things did not work out quite like that. Berzengy, a development in the desert outside Ashgabat, the capital, is testament to his misplaced optimism. Berzengy is known locally as Las Vegas because of its strip of 21 hotels, all with casinos and office blocks.

The hotels were built to accommodate the anticipated flood of western investors, but they have been left housing two or three guests at most. The Soviet Union treated the

country as a colony, and developed vast cotton fields. But Turkmenistan's energy resources thought to be the fourth-largest in the world after Russia, the US and Iran - held out the prospect of prosperity, and they remain the principal reason why western business travellers are likely to visit Turkmenistan.

In the Soviet days, 80bn cu m of gas was sent by pipeline to Russia, Ukraine and Georgia. Those exports have now stopped. and Turkmenistan exports only 2bn cu m, by pipeline to Iran. Attention has turned to oil. Turkmenistan lifts 120,000 barrels per day, almost all for domestic

consumption, Mr Nivazov wants production to increase by 200,000 barrels a day. Two UK companies, Monument

after and Burren Energy, share an onshore oil concession, which is producing 15,000 barrels a day; Mobil of the US is the distributor. Dragon Oil, another UK company, has a small offshore con-

> Western diplomats in Ashgabat believe there will be more business opportunities in areas such as oil and gas and construction. But, in the meantime, business travellers must be prepared to overcome the legacy of haphaz-

The Soviet Union treated the country as a colony

ard economic development.

They will need a visa. This requires a letter from the ministry of foreign affairs. Embassie in Ashgabat are prepared to act as sponsors for their nationals. But if you plan to visit the oil town of Nebit Dag or the port of Turkmenbashi, it is vital to make your intention clear in the letter, otherwise you will be confined to Ashgahat

Once you have received a letter, you can buy a visa at the Turkmenistan embassy. At the airport, be sure to fill in the customs form to declare any foreign currency, computers, cameras, mobile phones and the like, since you will almost certainly be asked to produce them on the way out.

It is worth paying \$15 (£9.30) to

go through the commercially important person's lourge - it speeds up the process or arrival. and departure.

A taxi from the airporttakes 19 minutes and costs anything from \$2 to \$15, depending en your negotiating skills. However, few taxis have meters.

The best hotels in Ashgabat are thought to be the Ak Atin and the Nisa, both of which are blessed with good restaurants and cost about \$180/\$216 br a single room, and the Grant Turkman at \$140.

The big hotels have discos and casinos, and cable television in the rooms, showing CNN and BBC World. It is possible to telephone and fax internationally but it is expensive. Credit cards are not accepted anywhere except the hotels which seem to take

English is not spoker outside the main hotels, and so you will need a guide or interpreer. It is essential to take lots of small denomination bils. The local currency, the mane, is officially 5,000 to the dollar, but it is

sinking like a stone. Don't be left with to many surplus notes because ou will not be able to convert then back. Ashgabat is a quiet town with not a lot to do, but it is easy to get around, and has no great-

street crime problem. If you buy a carpet - these ones are world famous - rou will need an export permit (or one made earlier than 190, and obtaining a permit cai be a tiresome process.

Stewart Dalby travelled v Turkmenistan with British Miditerranean Airways

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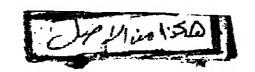
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INSIDE TRACK

BUSINESS EDUCATION E-COMMERCE

Cyberbusiness course takes off

Demand outstrips supply for MIT's new cumculum track, writes Victoria Griffith

Professors at the Massachusetts Institute of Technology's Sloan School of Management have been caught off guard by the excitement surrounding a new MBA curriculum track in e-commerce, to be launched in September.

Within a few days of announcing the programme last month, Nader Travassoli, assistant professor of management, says he was deluged with more than 400 e-mails from prospective applicants. Other professors at the school say they have been flooded with inquiries from around the world.

The Sloan School will be the first elite US business school to offer a curriculum specifically in e-commerce. Other MBA programmes are keenly aware of rising interest in the internet, but most have tried to integrate cyberspace instruction into existing courses.

e-commerce its own curricu- son, associate professor of lum track elevates MBA management, who teaches internet-related instruction the course and will co-direct to a new level. E-commerce will become the school's seventh concentration alongside manufacturing. strategic co-director Prof Travassoli management, information are now struggling to pull

likely to conjure up

images of jumble sales and

Mothers' Union meetings

than high finance. But not

any more. Britain's first

MBA in church management

starts this month with the

aim of bringing business

Lincoln-based Bishop

skills to the clergy.

technology, financial engi-neering, financial management and new product develthe two-year MBA programme is expected to be in

their field of concentration. MIT says it decided to add the new track because of student demand for internet-

'We're struggling with these issues. This is work in

progress'

ment track.

BUSINESS EDUCATION CHURCH MANAGEMENT

The Church of sity of Hull. It is aimed at

related courses. The Sloan school's basic course on e-commerce was so oversubscribed that it was forced to place more than 100 students on the waiting list. "In the fall, we'll have multiple sections so this won't happen MIT's decision to grant again," says Erik Brynjolfsthe e-commerce manage-

Prof Brynjolfsson and his

England is more clergy of all Christian cover standard MBA mod-

working in Christian learn about charity law and

schools, colleges and chart- managing physical resources

denominations and those

ties, as well as practising

Mark Chater, course

Christians working in secu-

leader, says "the intention is

to equip participants with

the knowledge, skills, attri-

lar management posts.

together course material, professors, and guest lecturers to launch the new programme in September. It is a challenge. No textbooks yet exist, so professors will have opment. About a third of to make do with selfstudents' course load during generated case studies, clippings from news publications, and any other material they can find.

> MIT is not even sure which subjects the new track should cover. "A student came to me the other day talking about E*trade [an internet stock trading group) and wondering if we were going to have a course specifically on the internet and finance," says Prof Travassoli. "We're still struggling with these issues. This is work in progress." The Sloan school hopes

the new programme will spur research on e-commerce. Many MIT professors are engaged in their own independent internet projects, and the programme will attempt to pull the school's expertise together. Sloan plans to team up with MIT's Media Laboratory, which specialises in internet technology research, and the computer science division, for many classes.

The faithful put their trust in an MBA

The part-time course will

ules but students will also

- a growing problem for

churches saddled with old

and decaying plant, says Mr

Chater. In addition. "they

will also learn to develop a

theology and spirituality of

management so that man-

One course, to be offered by the Media Lab's Pattie brand loyalty in e-com-

computerised negotiators soli. "Will it evaporate or biggest challenges will be to programmed to seek the best grow even stronger? How do you improve your relation-ships with customers in a digital world? These are the questions we want to explore."

> tors say some scepticism remains. One professor, they recount, said he thought it was a bad idea for the school to become involved in "facts".

limit the number of students enrolling in the programme. The school wants no more than a 100 a year in the concentration. "Otherwise, they don't even get to know each other, and it becomes unworkable," says Prof stand how the technology over the curriculum Brynjolfsson. "We'll have to keep raising the requirements for course completion - an extra paper here. another exam there - to make sure only the very

committed opt for this con-

The programme's co-direc-



Training for management in the real world

There must be quite a few recipients and even practitioners of manager education who have wondered whether the training relates to the real world or is just the product of some esoteric ivory tower With this in mind, the Schulich School of Business at York University, Toronto, is holding a two-day symposium on March 18 and 19 entitled "Bringing the Real World into Business

Topics include how to model and simulate the real world, developing innovative working relationships with industry and government, and how to make the case study more relevant. Speakers are from US. Canadian and European business schools. Schullch: email:

Seal of approval for De Montfort

realworld@bus.yorku.ca

De Montfort University School of Business, In Leicester, England, has received accreditation from the London-based Association of MBAs for Its range of MBA programmes. These are the full-time and part-time MBAs, both run in Leicester, and the part-time MBA run in South Africa.

De Montfort: www.dmu.ac.uk

French opening for OUBS

The UK's Open University Business School has signed an agreement with the Chambre de Commerce d'Industrie de Paris (CCIP) to enable the CCIP to translate and adapt OUBS's Capable Manager course for the French-speaking market. In the UK, the Capable Manager programme leads to a professional Certificate in Management. The powerful CCIP is responsible for setting up three of the big French business schools in Paris

and is a heavy investor in management education. It is also at the heart of a network of chambers of commerce throughout OUBS: http:// oubs.open.ac.uk

Merrill Lynch links with MIT

Merrill Lynch has teamed up with MIT, in Cambridge, Massachusetts, to pursue joint research in financial engineering and technology innovation and management and to build a financial engineering curriculum et

Merril Lynch has given \$20m to various schools at MIT - the Sloan school of management, the school of engineering and the schools of architecture and planning - to develop the project over a five-year period. The laboratory for financial engineering, for which \$5m of the funds have been earmarked, will be housed at the Sloan school. Sloan: http://web.mlt.edu/ sloan/www/

Return ticket to the west

Charles Harvey, the founding director of the Roval Holloway School of Management et London University, is quitting to become dean of the Bristol Business School at the University of the West of England. Prof Harvey is a graduate of Bristol University where he also completed his doctorate in management. He replaces Mike Rees who is now assistant vice-chancellor at the

UWE: UK. 117 976 2558

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price on products over the internet. Profs Travassoli and Brynjolfsson expect some students will become heavily involved in internst technology, while others will learn just enough to underwill affect corporate strat-

egy. The new curriculum will focus on big-picture questions. "What happens to Maes, will focus on "agents", merce?" says Prof Travas- high, Sloan says one of its centration.

Church's message," he says.

and business because busi-

ness is all about competition

and the church is based on

co-operation. But he adds,

this course is not about

church people taking on

management language and

values uncritically. It is for

dichotomy between religion ate."

With interest running so

management ideas and who follow best practice in Mr Chater admits that have the vision to implehuman resources, communithere is something of a ment them where approprication and operational matters?" He adds that the key The Rev Dr William Beato the MBA in church manver. the Church's director of agement is that it will communications, says that breed a whole new generation of ecclesiastical administrators who can take on improve its image. "The prethe leadership of the organivailing view of the Church of sation and take it forward

shouldn't we be efficient and Helen Jones

into the next century."



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business skills it will

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slightly dotty, eccentric

organisation but wby

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> FINANCIAL TIMES No FT, no comment

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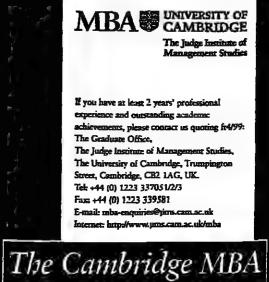
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BUSINESS **EDUCATION**

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MEDIA TELEVISION

voyage of Discovery

A US company is determined to be an increasingly powerful force in TV markets around the world, writes Richard Waters

sion companies keep their audiassemble the biggest pack of Travel Channel. channels you can and reach out to the whole world.

For a company launched only 14 years ago, that sounds a tall the US company has moved in its is likely to pale in comparison dria of America's ageing Baby with what it plans next.

Judith McHale, its president, concedes that the scale of Discovery's current ambitions has produced its doubters. "A lot of people are asking, 'What on earth are they doing?' " she says. But the race to secure shelf-space and brand identity is on. "We have to get out early and establish the product," Ms McHale adds. With a fifth of its revenues already coming from outside the US, and the proportion growing, the aim is to become an increasingly powerful force in television markets

around the world. life there was just the Discovery Channel - known mainly for its

In the fragmented future archives of the BBC. Since then, These days, with new channels of ever-multiplying digital the vehicles have multiplied at crowding on to limited analog channels, how will televi- an accelerating rate: The Learning Channel, bought in 1991, was ence? The answer, according to followed in 1996 by Animal Discovery Communications: Planet and, only a year later, the

These last two are not yet profitable. But already, Discovery is preparing its biggest investment of all: the \$350m (£215m) it is order. And if the speed at which likely to take to establish the Discovery Health Channel, an short life has been striking, that attempt to tap into the hypochon-

> The private company has also promised \$500m to back a joint venture with the BBC, including the launch of another new vehicle, BBC America. And while these channels are rolled out over the existing analog cable television networks, a stable of lower-budget digital outlets is being put in place in preparation for the time when audience fragmentation takes hold with a vengeance, with six channels created over the past two years.

The economics of the cable business have changed a lot since For the first five years of its John Hendriks, the company's founder, started out. The first Discovery Channel, now one of documentaries about animals, the best-known brands in televimany of them recycled from the sion, cost only \$25m to create.

networks, the balance of power has swung: cable companies in the US are reckoned to charge new channels around \$5 per subscriber in "launch costs".

But the rewards can be substantial. Fuelling Discovery's

When you're faced with fragmentation, you're better off owning

more slots'

headlong rush is the \$300m of cashflow that its flagship channel will generate this year, and the \$125m produced by the Learning Channel, according to estimates from Credit Suisse First Boston. There are two forces behind the ever-increasing speed at which Discovery is moving. One

is the need to generate a big enough audience to deliver to advertisers once the digital era finally arrives. "When you're faced with fragThat makes it possible to "aggregate viewers for your advertis-

Until now, the Discovery president concedes, the promise of digital television has been "an everreceding bonanza", always seemingly about to arrive but never quite here. This time, she says, things are different: the final quarter of last year produced the first real signs that digital subscribers are about to take off.

A second factor behind the fastmoving business plan has been the a desire to spread the costs of running the group, and creating programming, as widely as possible. Ms McHale climms "the most sophisticated international net work structure of anyone", reaching more than 70m subscribers in 142 countries. With that sort of a base, it becomes cheaper to launch a new network than it would be to create one from

nomics of programming. "The whole theory of developing international business is that for murginal additional cost, you can develop significant additional revenues," says Don Wear, head of international operations.

The group's fact-based content helps: much of it can cross bor- tisers bought slots to promote basis, that we are profitable." mentation, you're better off own- ders without having to cross the



McHale: "life have to get out early and establish the product"

have to bridge.

The growing international strength last night to prove the reach is also improving the ecopoint. An archaeological production, titled Cleopatra's Palace, was aired at 9pm in all the countries that Discovery reaches - its second effort at trying to create a "buzz" around a single global wreck of the Titanic last year. And for the first time, two adver-

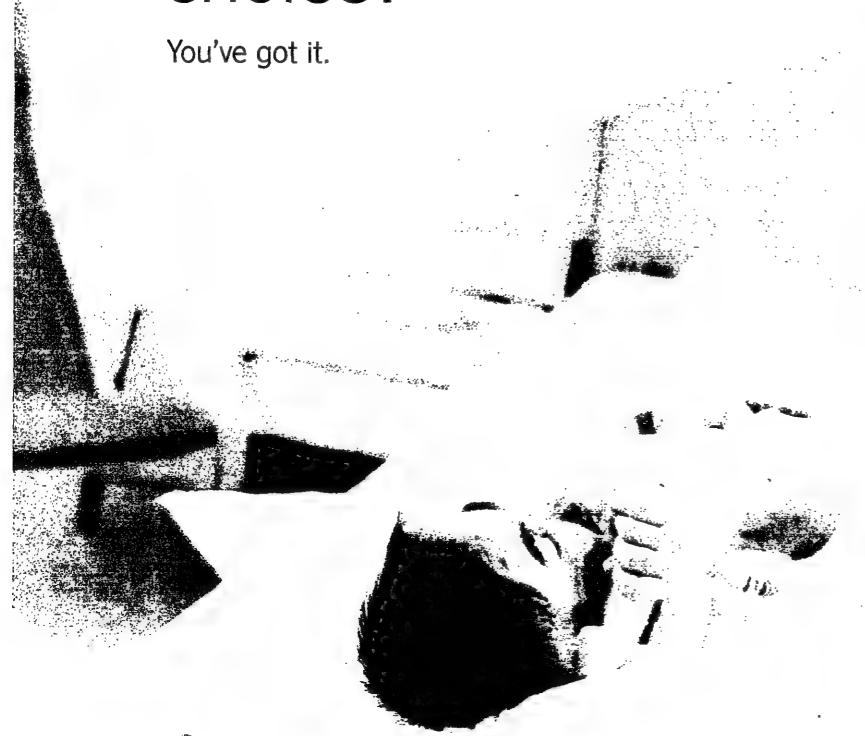
cultural gulf that a sitcom would Merrill Lynch are said to have paid a premium of around \$1m between them for the chance to reach an audience around the world through a single vehicle.

The first phase of Discovery's push abroad is already nearly complete. With Europe and Latin America already turning a profit in cashflow terms and Asia about event, after an exploration of the to cross that threshold, "we are one of the few [media] organisations that can say, on a global their own global brands. Visa and says Ms McHale.

The drive is on outside the US to produce the same collection of channels that Discovery has created at home: there are already seven Discovery channels in the UK, with four in Latin America

and two in India. With a powerful brand and a well-established model for spinning off new channels, this is likely to make it a formidable competitor to national broadcasters around the world - provided, of course, that it does not over-

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TECHNOLOGY DIGITAL WATERMARKS

Yet to make its mark

Geoff Nalm on developments in copyright coding

Enforcing copyright over digital content is today a frustrating task because of the ease with which it can be distributed over the internet and manipulated to hide its origins.

Digital watermarks try to overcome this problem by adding hidden information to digital images, video clips or music. A digital watermark is a code interwoven into the original data that is supposedly imperceptible to Petitcolas uses his website to

listener or viewer. When digital content is today's commercial proddistributed online or ucts. "These schemes are not recorded on disks, tell-tale robust enough and hence the copyright data travels with current technology is not it, encoded in the digital watermark. This allows the copyright holder to demonstrate a claim to intellectual property rights.

Research into digital watermarks only began around 1993 but the subject is now attracting intense interest, most recently from record companies worried about the proliferation of music websites that do not pay royalties.

In the past two years, at niques which remove extraleast a dozen watermarking neous data so that audio sigtechnologies have been nals can be converted into developed, as well as complete copyright management systems for licencing and tracking watermarked mate- and the music industry is rial on the internet. But particularly interested in their uptake so far has been

Bruce Davis, president and chief executive of Digimarc, of websites illegally a US pioneer of digital watermarks, blames the poor take-up on the legal uncercopyright and the slow speed of today's internet.

The excessive time required to download highquality images makes it unrealistic to expect many phy over the web, for example. But Mr Davis is confident the internet will soon be fast enough to support such applications. "As internet bandwidth

and digital watermarks will become an important way of proving copyright," he says. He also takes comfort from the Digital Millennium Copyright Act, new US legislation that outlaws technologies designed to break copyright protection devices, including live transmission of sports encryption and digital water-

acquire a much higher value

marks. marks so that they can no some of the "special challenge.

effects" in commercial image editing software can render watermarks unrecognisable or manipulation may be

deliberate. In the latter category is StirMark, a software tool that can alter watermarks created by Digimarc. Signum Technologies and other vendors so that they can no longer be detected.

StirMark is available from the website of Fabien Petitcolas, a researcher at the University of Cambridge (UK). A specialist in "steganography" - the science of hiding information - Mr expose the vulnerability of ready for public use." he

Inevitably, a company has risen to the challenge and developed a watermark that it claims will resist "attack" by StirMark. The company, Blue Spike, has developed separate varsions of its Glovanni technology to protect both still images and audio. The audio version has

been designed to survive the "lossy compression" techreasonably small digital One such technique is MP8

methods of watermarking and encrypting MP3 files because of the proliferation distributing copyright music in this format. The same issue could soon

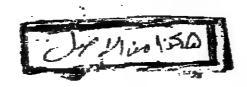
tainty surrounding digital affect the digital TV industry. Christoph Busch, head of security technology at the Fraunhofer institute for Computer Graphics, sees a promising opportunity for watermarking in protecting users to buy stock photogra- real-time digital video streams.

One of the problems with digital TV is the signals can easily be intercepted by pirates and retransmitted over the internet or via satincreases, content will ellite or terrestrial networks.

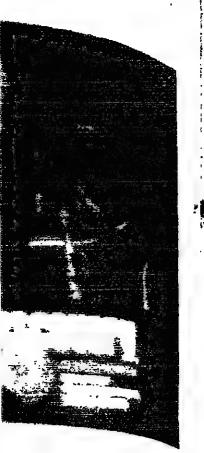
The institute has developed a watermarking algorithm for use on broadcast quality video images. Thanks to specially designed hardware, the system can embed watermarks in video streams in real time, so allowing it to be used for the events, for example.

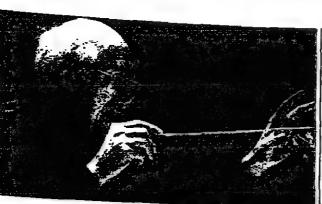
Such content loses much There are several ways to of its value if it is retransalter commercial water- mitted later so pirates must "attack" the watermarked longer be detected. The dis-video stream in real time. tortion may be unintentional adding to their technical





THE ARTS





MILAN A new production of Tchaikovsky's Mazeppa opens at La Scala on Saturday, conducted by Mstislav Rostropovich (above) and staged by Lev Dodin. Anatoly Kocherga and Olga Guriakova head the cast.

NEW YORK learly 70 masterpieces of medieval panel painting, sculpture, textites and manuscript illumination have been lent by the Basilica of San Francesco in Assisi for an exhibition opening

tomorrow at the Metropolitan

Museum. They include some of the key monuments in the development of early Renaissance art. The exhibition, entitled "The Treasury of Saint Francis of Assisi", is designed to heighten wareness of the effects of the earthquakes that devastated the

italian town in 1997.

Placido Domingo is the centrepiece of an all-star revival Metropolitan Opera on Thursday. Valery Gergiev conducts, and the ine-up also includes Olga Borodina, Galina Gorcha and Dmitri Hvorostovsky.

David Hare, whose work is ever-present on Broadway these days, steps on stage himself in his one-man play Via Dolorosa. nspired by a 1997 trip to the Middle East and directed by Stephen Daldry, it opens in a

Lincoln Centre Theatre production at the Booth, on Thursday.

VIENNA "The New World in 19th Century Painting" is the title of an exhibition opening at the



Retuerlers on Wednesday. It documents the artistic development of the American people from the Declaration of Independence in 1776 to the New York Armory Show of 1913.

also entre "a d

LONDON

The 20 surviving paintings attributed to the Netherlandish artist Rogier van der Weyden (left) are scattered across Europe and the US, and most are too fragile to travel. The National Gallery has five, and these are supplemented by two from the Gulbenkian in Lisbon and two from the Getty in California for an exhibition, opening on Thursday, which celebrates the 600th anniversary of the artist's birth.

lan Judge is back at the Coliseum to stage English National Opera's new production of Boito's Melistofele. He is partnered by Slovak conductor Oliver von Dohnányi and a cast including Alastair Miles, David Rendall and Susen Patterson. The first night is on Thursday.

Theatre brings its spookily effective Dracula (right) to Sadler's Wells for a season which runs until 27 March. Two productions open this week at the National Theatre. A new repertory season begins at the Olivier, directed by Trevor Nunn and John Caird, in which the same team of actors will

handle Shakespeare's Troilus and

Cressida (opening tonight) and

Leonard Bernstein's musica Candide (in April). On the Lyttelton stage, the Abbey Theatre's production of Dior Boucicault's Irish Colleen Bawn na anego Thursday, its director is Connal On Wednesday Northern Ballet

PRAGUE Since the Velvet Revolution, the State Opera has made its name by delving into its prewa history as Prague's German opera house. Its latest excavation is Emil Burian's Bubu from Montparnasse, composed in 1927, Veteran conductor Bohumil Gregor presides over the first night on Saturday.

I to make Mark







one of Yves Klein's famous mono-

"Anthropometrices de L'Epoque

while 30 musicians played a single

note for 10 minutes, was causing a

In the bright, high-ceilinged first-

floor rooms of the Jeu de Paume.

the juxtaposition of this sort of

work with one of the most gracious

views of classical Paris is sensa-

tional. At the great observation

window looking down the magnifi-

cent façade of the Rue de Rivoli

stands César's mass of spangled

metal "Ricard", a compressed car,

and Pol Bury's round silver sculp-

ture of 12,000 metal bails. Jean Tin-

guely's "Meta no 3", a mixed instal-

lation of iron and three motors

from 1970-71 also looks out on to

the roofs of Paris, and sends view-

The recreated presidential rooms

test of classical Paris surrounding

them: with luminous floors and

multicoloured carpets, they

become a child's psychedelic para-

dise when viewed through seven

panels that make the interior

change colour and cast a giant

Toits de Paris" (1952).

scandal at a Paris gallery.



Politician with cultural vision

Paris is celebrating the cultural legacy of the late president Pompidou, writes Jackie Wullschlager

Georges Pompidou or the Bibliothe - in the 1950s had, when endorsed by que François Mitterrand - both the state, become a symbol of audacious, high-profile buildings wealth and power by the 1970s. that speak for their times.

examples of French presidents Mathieu, a friend of Pompidou. whose cultural legacies were part of a wider political vision to bring modernity and education to the masses in ways which were exciting and accessible. One of Pompidou's aides suggests that to paint in red and yellow. In the become this sort of patron is a natural role for a 20th-century leader. ric Abstraction was as innovative Often held so in check by bureaucracy and the democratic process that they can change little, monuments such as the Pompidou Centre or Mitterrand's Très Grand Bibliotheque ensure immortality

through art. This is just one of the strands running through a mesmerising new exhibition, Georges Pompidou et la Modernité at the Galerie National du Jeu de Paume in Paris to commemorate the 25th anniversary of Pompidou's death. A second is the story of Pompidou the private collector, discreetly amassing

pictures at the Harold Wilson Cul- and 1960s. A third aspect unites tural Centre in London, or taking a these two strands and is a voyeur's seat at the Margaret Thatcher delight - an exquisite series of National Library. Unlikely? Of recreations of the presidential livcourse - because leading political ing quarters, "les appartements de figures have never been important l'Elysée", from the 1960s and 1970s. patrons in Britain. In Paris, on the Here you can attend fantasy din-

No career epitomises this move-Pompidou and Mitterrand are ment better than that of Georges Mathieu's enormous oil painting "La Bataille de Brunkeberg" (1956) is the centrepiece of the opening room, a vast black background splattered with thick fireworks of 1950s, Mathleu's lyric, non-geometas the neo- Expressionism of American artists such as Jackson Pol-

lock, and, painting a 12ft canvas in the presence of an audience in 1956. Mathieu anticipated the shock-effect "happenings" of 1960s US artists. By 1974, the year of Pompidou's death, however, Mathieu was designing the new 10-franc coin. and some of his greatest works.

such as "Un silence de Guibert de Nogent", were already bought for the planned Pompidou Centre. interviewed for the catalogue to

Imagine visiting an exhibition of some of the finest art of the 1950s Pompidou's patronage to that of 1960s babe tinted fluorescent green Louis XIV, and says the president is set against a bright orange "woke up France to modernity, to square of canvas and wood; and

industrialisation". It is the spirit of the man and his chrome blue canvases, bought the particular taste that is electrifying: same year (1960) that Klein's gregarious, curious, open-minded, Pompidou had made links with art- bleue. In which naked women other hand, the most natural thing ners with the president and find isss since he bought his first Max smeared themselves in blue point is to drop into the Centre Culturel out how the radical and shocking Ernst drawing at the age of 17 and pecame a close friend of the

> Pompidou's patronage, which 'woke up France to modernity', has been likened to that of Louis XIV

painter. He bad exceptional prescience, choosing the works of experimental Nouveau Realistes such as Martial Raysse. Arman and Raymond Hains at a time when it was impossible to predict that precisely such artists would become emblematic of the 1960s.

Highlights from Pompidou's own collection include Arman's "Joan's Violin", a combusted instrument set in resin and polyester, Raysse's pop-art "France Orange", in which this exhibition. Mathieu likens a photograph of a Bardot-esque floor sculpture, a bent triangle halancing on a silver ball, in ghoulish blues and purples. Pompidou was a connoisseur viv-

idly alert to the new but who was also steeped in tradition. He kept a book of ancient Greek poetry on his desk and snatched a few seconds' relaxation by reading it. His Anthologie de la poesie française (1961), ranging from courtly medieval lyrics to Apollinaire and Paul Eluard, became a classic - it is read aloud here in a white antechamber, bare except for a stately bronze bust of the president by Etienne Hajdu.

Pompidou saw that Paris risked recorded it in 1991, and losing out culturally to London and | while I'm glad I heard it, I New York, pop-art centres of the won't be rushing out to grab 1960s, and his bold projects to it again. It is a brave, noble inject a contemporary thrill into and often inspired experithe French capital continue to ment that ultimately colhave a central role today. The lapses under its own weight, Pompidou Centre - his own idea has fulfilled his dream of a cultural and audience exhausted. centre for Paris attracting people who would not normally visit galleries or concert halls. A huge room of models and screen images. accompanied by 1970s music and Paris street sounds, is given to the centre's architecture and construction here.

This is a quintessentially French ers back to the first work in the show: patriotic, democratic, celeexhibition, Nicholas de Stael's "Les brating at once cultural innovation and the political will to make things happen. Yet it is also a fasciare also extraordinary in the connating monument to one man's personal taste in an era that stands for us between the historic and the contemporary.

At the Galarie Nationale du Jeu de Paume, 1 place de la Concorde, Paris, until April 18.

MUSIC TOWARDS THE MILLENNIUM

Rattle returns to an Odyssey

millennium for concentrat- stand back and breathe. ing minds on a century. But the closer Simon Rattle's tive when you to recall the survey of 20th century sheer breadth of terrain covmusic gets to the present, ered: the expectation the more shapeless the pic- aroused by the first "timeture becomes - and the chord"; the pastoral English harder it is to make mood at the culmination of hard-and-fast judgments. We Part 2; the solo horn's statenow have a welter of premillennial concert series, tre; the tumultuous combut none more far-sighted than Rattle's "Towards the Millennium".

He and the City of Birmingham Symphony Orchestra have advanced to the 1980s, a decade of enormous significance for them both. Whatever else was going on In the world - Thatcherism perestroika, Reaganomics it was a time of musical laisser faire, when the demise of central European orthodoxies left the field open to composers from Russia, Poland, the UK and US. Rattle avoids non-Rattle territory, such as Schnittke's Fifth Symphony and the Trumpet Concerto from Stockhausen's Donnerstag. both of which would have been worth re-visiting, His choice nonetheless suggests a surprising number of rep-

ertoire-worthy pieces. The exception is Nicholas Maw's Odyssey. which took up the whole of the second programme in Birmingham last Thursday (repeated at London's Royal Festival Hall tonight). This was its first UK outing since Rattle leaving composer, orchestra

Maw uses the idea of a spiritual journey as an excuse for stylistic unevenness and creative longwindedness. By arguing that the size of his themes demanded a structure of equal scale, he simply wrote his own prescription for Elgantism. But is the opening 44-bar cello theme really that memorable? The skill with which Maw explores it is another matter: melodies of extraordinary beauty compete with each other for our attention, supported throughout the 90-minute span by a textoral palette of constantly unfolding richness. By the latter

There's nothing like a admire, and no room to That sounds unduly nega-

ment at the work's epicenpression of the final two parts. Listening to the confident voice of those closing 30 minutes, which Maw wrote in a flourish after years of creative slog, I

It is a brave, often inspired work that ultimately collapses under its own weight

wished he had started afresh in the same vein.

Sir Simon guided us

through it all with supreme clarity, supported unflinchingly by his orchestra: as he loosens his ties with Birmingham, the Rattle/CBSO marriage seems more alive than ever. They had even more fun with Lutoslawski's Third Symphony, which opened "Towards the Millennium" the previous weekend in London. Lutosiawski convinces us that the tighter the framework, the more pungent the statement. This performance captured the symphony's Beethovenian drama, its Debussyan intricacy, its subtle creation and dissipation of tension, and a sense of enveloping sound and intellectual organisation in perfect harmony. A masterpiece.

After that, Takemitsu's guitar concerto was pure wallpaper music, despite John Williams's contribution, and every bar of John Adams's Harmonium betrayed its time and provenance. But let's not be fussy. Minimalist word-setting is so formulaic that it's best just to sit back, and submit to Adams's teeming instrumental palette and infectious rhythms. Rattle and the CBSO Chorus pulled off an ecstatic performance.

balf, there's too much to Andrew Clark

INTERNATIONAL

Guide

AMSTERDAM

DANCE Het Muziektheate Tel: 31-20-551 8911 **Dutch National Ballet** programme combining the Dutch premiere of Acts of Light by Martha Graham, with the world premiere of Krzysztof Pastor's Bitter Sweet, and Balanchine's Symphony in C; Mar 19

Netherlands Opera, Het Muziektheater Tel: 31-20-551 8911 Die Zauberflöte: by Mozart. Conducted by Hartmut Haenchen in a revival of Pierre Audi's staging co-directed by Saskia Boddeke; Mar 15, 18

OPERA

BERLIN OPERA Deutsche Oper Tel: 49-30-34384-01 Alda: by Verdi. Conducted by Lawrence Foster in a staging by Götz Friedrich; Mar 15 ● Tosca: by Puccini. Conducted by Jacques Delacote in a staging

The street of th

A Commence of the Commence of

by Boleslaw Barlog; Mar 16

BIRMINGHAM CONCERT Symphony Hall Tel: 44-121-212 3333 London Sinfonietta: Higglety Pigglety Pop! and Where the Wild Things Are, conducted by their composer Oliver Knussen;

BOLOGNA OPERA Teatro Communate Tel: 39-51-529999 La Cena delle Beffe: by Giordano. Conducted by Bruno Bartoletti in a revival of Liliana Cavani's staging, first seen in Zurich four years ago. The cast is led by Daniela Dessi and Alberto Cupido; Mar 16, 18

CHICAGO CONCERT Orchestra Hall Tel: 1-312-294-3000 wv.w.chicagosymphony.org Chicago Symphony Orchestra: conducted by Pierre Boulez in works by Stravinsky, Debussy and Berlioz, with harp soloist Sarah Bullen; Mar 18

DRESDEN **OPERA** Semper Oper Tel: 49-351-48420 Ariadne auf Naxos: by R. Strauss. Conducted by Colin Davis in a new staging by Merco Arturo Marelli. Cast includes

Susan Anthony and Jon Villars; Mar 17, 19

LONDON CONCERTS Queen Elizabeth Hall Tel: 44-171-960 4242 London Mozart Players: conducted by Matthias Barnert in a programme of works by Mozart, with tenor Mark Tucker; Mar 18 London Sinfonietta: Higglety Pigglety Pop! and Where the

Wild Things Are, conducted by

their composer Oliver Knussen;

Mar 17 Royal Festival Hall Tel: 44-171-960 4242 BBC Concert Orchestra: conducted by Barry Wordsworth in works by Rossini, Handel, Sibelius and Rimsky-Korsakov, with violin soloist Tasmin Little; Mar 16

 City of Birmingham Symphony Orchestra: conducted by Simon Rattle in Nicholas Maw's Odyssey, Mar 15 Philharmonia Orchestra: conducted by Benjamin Zander in a selection of waltzes by J. Strauss, and Mahler's Symphony No. 5; Mar 18

EXHIBITION Tate Gallery Tel: 44-171-887 8000 Jackson Poliock; arriving in London from New York, this major retrospective of the Abstract Expressionist comprises around 80 paintings and drawings drawn from major public and private collections

worldwide; to Jun 6

English National Opera, London Golfmum Tel: 44-171-632 8300 Mefistofele: by Boito. Conducted by Oliver von Dohnányi in a new staging by lan Judge; Mar 18 Parsifal: by Wagner. Conducted by Mark Elder in a new staging by Nikolaus Lehnhoff, with sets by Raimund Bauer and costumes by Andrea Schmidt-Futterer; Mar 16

MUNICH CONCERTS Philharmonie Gastek Tel: 49-89-5481 8181 Bavarian Radio Symphony Orchestra: conducted by Lorin Maazel in works by Bruckner,

 Stuttgart Radio Symphony Orchestra: conducted by Yutaka Sado in works by Gershwin, Chopin and Prokofiev. With piano soloist ivo Pogorelich; Mar 18

OPERA Bayerische Staatsoper Tel: 49-89-2185 1920 www.staatstheater.bayem.de Katya Kabanova: by Janáček. Conducted by Paul Daniel in a staging by David Pountney, with sets by Stefanos Lazaridis and costumes by Marie Jeanne Lecca; Mar 17

NEW YORK CONCERTS Avery Fisher Hall, Lincoln Tel: 1-212-875 5030 www.lincolncenter.org

 New York Philharmonic conducted by Paavo Jarvi in works by Paul Creston, Bartók and J. Brahms: Mar 16 New York Philharmonic: conducted by Yuri Temirkanov in works by Shchedrin and Stravinsky, with violin soloist Hilary Hahn; Mar. 18, 19

Metropolitan Opera, Lincoln Tel: 1-212-362 6000 www.metopera.org The Queen of Spades; by Tchaikovsky. Conducted by Valery Gergiev in a revival of Elijah Moshinsky's staging, designed by Mark Thompson, The cast is led by Placido Domingo, Galina Gorchakova and Olga Borodina; Mar 18

New York City Opera, New York State Theater Tel: 1-212-870 5570 www.nvcopera.com

 Lizzie Borden: by Jack Beeson. New production conducted by George Manahan in a staging by Rhoda Levine, with Phyllis Pancella in the title role; Mar 18

 Madama Butterfly: by Puccini. Conducted by Guido Johannes Rumstadt in a staging by Mark Lamos first seen in November, with sets by Michael Yeargan;

NEWCASTLE CONCERT

Tel: 44-191-261 2606 Stuttgart Philharmonic: conducted by Jorge Peter Weigle in works by Wagner, Brahms and Strauss, with piano soloist Barry Douglas; Mar 15

PARIS OPERA Opéra National de Paris, Opéra Tel: 33-1-1473 1300 www.opera-de-paris.fr The Magic Flute: by Mozart, Conducted by Friedemann Layer

in a staging by Robert Wilson; Mar 15, 16, 17

Opéra National de Paris, Palais Garnier Tel: 33-1-13430606 www.opera-de-paris.fr La Clemenza di Tito: by Mozart, Conducted by Ivor Bolton in a staging by Willy Decker with designs by John MacFarlane. Cast Includes Theo vari der Walt

and Christine Goerke; Mar 15, 18

SAN FRANCISCO CONCERTS

Davies Symphony Hall Tel: 1-415-864 6000 www.sfsymphony.org San Francisco Symphony Orchestra: conducted by Herbert Blomstedt in works by Berwald and Brahms; Mar 18, 19

TOKYO CONCERTS Suntory Hall Tel: 81-3-3584 9999 Vienna Philharmonic Orchestra: conducted by Riccardo Muti in works by Schumann and Shostakovich: Mar 16

Orchestra: conducted by Riccardo Muti in works by Mozart; Mar 17 Vienna Philharmonic Orchestra: conducted by Riccardo Muti in works by Schubert and the Strausses; Mar 18

Vienna Philharmonic

 Vienna Radio Symphony Orchestra: conducted by Heinrich Schiff in works by Beethoven and Dvorák: Mar 19

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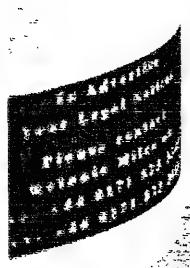
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At 08:20 Tanya Beckett of FTTV reports live from LIFFE as the London market opens.



Polish passion

Stefan Wagstyl and Christopher Bobinski meet Poland's popular president, a former communist who has embraced market reforms and taken his country into Nato

ish president who power and its privileges. complexity of preparing the Even his political enemies respect the way this former dards. He recognises the his job in the 212 years since neously implementing and good looks, but gets low taking office.

came down 10 years ago, few He says he also sees "a sense people would have predicted that one of the most popular politicians in eastern Europe als triggered by the fall of would be an ex-member of the Berlin Wall. the nomenklatura, Least of all in Poland, the country of Pope John Paul II, the Solidarity trade union, and Lech

Yet it was not Mr Walesa. but Mr Kwasniewski, sports minister in the last Communist government, who presided over Nato entry. He since he defeated Mr Walesa possible!." in the 1996 presidential elections. (Mr Kwasniewski ran pained when asked to as the candidate of the excommunist Left Democratic Alliance, or SLD.) The hand. He clearly so much enjoys some. 44-year-old politician the present that he hates to is now so far ahead in opin- be reminded of his commuion polls that the Solidaritylinked parties on the politi- of Poland's "political matucal right are struggling to rity" that voters are ready to prepare for next year's presi-

If he runs again and wins. be in office when Poland joins the EU early in the led to open elections in enough to win gratitude in new century, assuming negotiations with Brussels go well. The man who started his political career looking east for guidance would then have completed his country's reorientation towards

Mr Kwasniewski talks eloquently about the seachange in Poland's International position. In joining Nato, Poland is entering a 50-year-old alliance "wedded to democracy, free markets and the defence of human rights".

Security is all-important for a country which has been a battlefield for hundreds of years, he says. But Poland has to play a serious role in Nato, in particular in A man at ease with power. Aleksander Kwas

niewski, the Pol- ther eastward expansion.

"The open-door policy like a man at ease with more difficult because of the whole economy to EU stancommunist has grown into union's problems in simultaenlargement, internal reform When the Berlin Wall and the launch of the euro. of tiredness" in the west following the great upheav-

But Mr Kwasniewski argues that rapid change in Poland and the other candidate countries will drive enlargement forward, Poland plans to be ready for entry by the end of 2002. "Whether the EU will be ready for us then is an open question. But the initiatives are conhas rarely put a foot wrong tinuing [to try to make that

Mr Kwasniewski looks account for the success of his political transformation. nist past. He says it is a sign support him.

People recognise that Polish communism was not so bad. It was no accident that

leksander Kwas- keeping alive plans for fur- Poland] happened with Com- at least four places. The munist support."

president says all reforms Mr Kwasniewski might "produce a reaction from took his country must not be just an empty also have added that voters some group or another". He into Nato last week, speaks slogan," he says. BU entry is are so impressed with his believes good preparation is performance that they are all-important, including conprepared to set aside the sultation with those past, albeit sometimes relucinvolved. tantly. In opinion polls he that Poland's recent pension scores highly for intelligence reforms have gone smoothly marks for political honesty.

Unlike Mr Walesa (who, as president, was unable to capitalise on his legendary role as Solidarity leader), Mr Kwasniewski has mastered the intrigues of Warsaw politics. Forced to co-habit with a right-of-centre government, he might easily have been limited to the role of a political spoiler. Instead, he has actively supported the market-oriented reforms of Leszek Balcerowicz, the dynamic finance minister.

Mr Kwasniewski is pro-Nato, pro-EU and prosconomic modernisation, but he rarely misses a chance to score political points. Last year he intervened in

a heated debate over regional reform in which the government was planning to cut the number of regional authorities from 49 to 13 - to the anger of people in cities which were about to lose their status as regional capitals. Mr Kwasniewski successfully pushed for 16 regions. Not a big change in the reforms of 1989 [which the overall picture, but

Farmers who give up farming must be found other work so that village life as a whole benefits from EU entry, he says.

For example, he argues

cause the groundwork was

laid before the current gov-

ernment took office - not

missing the chance to take

some credit since the former

government was led by the

ex-Communist SLD. How-

ever, he says this year's

unpopular reorganisation of

the health service has been

badly implemented, and

planned education reforms

Mr Kwasniewski's greatest

could also "end in a flasco".

concern is for Poland's

villages, which have seen

little progress in the 1990s.

Farmers recently blocked

roads in support of demands

for more government aid.

Farming families feel iso-

lated by a growing gap

between city and rural

"People in the villages ask,

where is our place in all

these reforms?" We need to

talk to farmers about the

EU. We need to tell them

that while there will not be

room in the EU for every

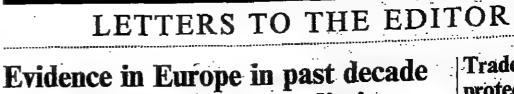
Polish farmer, Polish farm-

ing will definitely have a

place," the president says.

It is a theme close to his heart, since Mr Kwasniewski comes from a town in the depressed rural Koszalin region in northern Poland. The son of local doctors, he was in a good position as a child to see the realities of village life. He says: "The Polish village faces a big structural revolution." But Mr Kwasniewski does

not allow himself to dwell too long on the subject. He is a politician ruled not by passion but by political instinct. It has served him well so far and promises to do so in future.



of 'anti-capitalist' contradictions

Sir, Samuel Brittan ("No end of work", March 4) has taken up the cudgels in defence of the system and . against what he calls "the authors of anti-capitalist tracts". His arguments are less

than usually convincing They are concerned to demolish what he says is a growth today is not creating jobs. He compares this to the 'lump of labour fallacy", ie, that there is only a fixed amount of work to be done and therefore increases in productivity must reduce employment. No "anticapitalist author" to my knowledge believes that; indeed, it is their whole case that jobs can be created by government action.

What they do believe is increases in productivity in

tressful unemployment. The growth with less labour. examples Sir Samuel gives from English history of technological change - in trans-

Industrial Revolution growth is of course to be welcomed, but it must be voluntary leisure.

that it may be a very long from a smaller increase in time under capitalism for output but with less labour. output but with less labour. Bakewell

says is a contradiction in their thinking - that you cannot warn against both falling rates of productivity earnings of US manual workgrowth and jobless growth; it must be one or the other. But it must be accepted that you can get some small increase in productivity

one part of the economy to in the past decade compared be translated into new jobs with earlier decades is just clsewhere. In the meantime that: lower productivity there is wasteful and dis-increases and lower rates of

The US has had a different experience. But when Sir Samuel protests against critport, sheep farming, the ics of the poor quality of the jobs there, and claims the most rapid job growth has Agricultural Revolution, the show precisely that. His been in highly skilled jobs, advocacy of increased lei- this does not answer the fact dangerous failacy - that sure as a form of economic that the largest number of new jobs in the US has been in low-skilled services.

The real problem, which Sir Samuel seeks to pillory he evades, is there has been his adversaries with what he not only a widening differential between the better paid and the less well paid there, but an actual fall in the real ers over three decades surely a recipe for slumo.

Michael Barratt Brown,

What we have had in Europe Derbyshire DE4 1PQ, UK

Hostages to ghosts of Stalin and Hitler

Sir. Your editorial "Nato balancing act in the East" (March 10) accords too little merit to the desirability of admitting the Baltic states into the alliance sooner rather than later. Modern Estonia, Latvia and Lithuania were founded after the first world war, in the same

period as Poland, Hungary and Czechoslovakia. The albatross of their still being thought of as ex-Soviet republics, and somehow more beholden to the passions of Russian xenophobes, started only with the Molotov-Ribbentrop Pact of defeat, Estonia, Latvia and national security. This for 115 West 183rd Street Lithuania were the only mula will work with the Bal- Bronx, NY 10453, US

countries not to have at tic countries today as well least nominal independence use the legacy of their long. brutal and illegal occupation to justify denying them the right to reigh their natural

allies in the west. When Nato was founded. few of its original members could present a credible defence against the growing Soviet threat. Even fewer of these countries had rebuilt their economies from the destruction of war. Nato provided security not only against Soviet hegemony. It also provided a framework for alliance members, some 1939 and the resulting Soviet of whom had been historic occupation, In 1940, Stalin enemies, in which to estabforcibly appeared these county lish mutually beneficial ecotries to the USSR. Thus, nomic relationships without even after Nazi Germany's fear of compromising

Estonia has already qualified restored. It is not right to to begin accession talks with the EU, Latvia and Lithuania are not far behind All three Baltic states

> have been active participants in Nato peacekeeping operations. By any measure, these countries are ready to enter negotiations leading to full Nato membership. Today, we have a historic opportunity to advance a vision of a Europe that is truly unified, democratic and free. Let's not hold the future of Estonia. Latvia and Lithuania within this Europe bostage to the shosts of Stalin and Hitler.

Margers Pinnis. Baltic Association to the UN. 115 West 183rd Street,

Trade should protect natural resources

From Ms Rozanie Hall. - .

Sir. The banana dispute between the US and the European Union is just one of many increasingly bitter battles between those intent on liberalising trade at all costs (frequently led by the US) and those concerned to develop economies sustainably and humanely (often championed by the EU).

It is barely a fortnight since the last battle between these two trade titans. In Cartagena, Colombia, the US and five other exporting. nations of genetically modified food (Argentina, Australia, Canada, Chile and Uruguay) prevented the EU and developing countries from agreeing a Blosafety Protocol to regulate safer production of and trade in biotechnology products. They did so partly on the grounds that the proposed protocol would clash with World Trade

Organisation rules, Free trade as a principle is useless if the scarce resources of developing countries are destroyed in its pursuit.

This week, in response to a proposal from Sir-Leon Brittan, EU trade commissioner, the WTO will host two high-level symposia, one on trade and the environment (March 15-16) and one on trade and development (March 17-18). These meetings must be the first stage in a process to revise international trade to protect the buman and naturai resources on which that trade is based.

Developing country subassadors should be at these meetings to ensure their needs are addressed.

Rounie Hall. environment and development co-ordinator. Friends of the Earth International. 26-28 Underwood Street.

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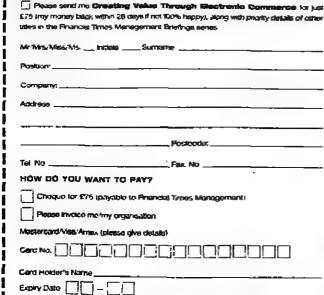
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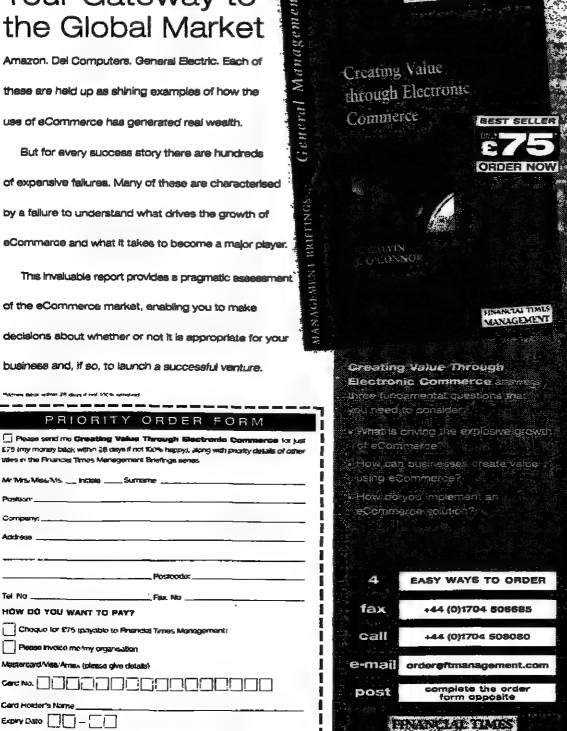
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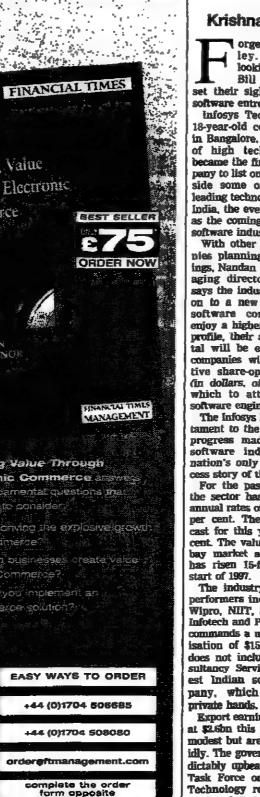
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MANAGEMENT



Silicon subcontinent

India's software industry is thriving thanks to the millennium bug. Krishna Guha and Paul Taylor ask whether it can make it to the big-time league

orget Silicon Valley. Investors looking for the next Bill Gates should set their sights on India's software entrepreneurs. infocus Technologies an

18-year-old company based in Bangalore, India's capital of high tech, last week became the first Indian company to list on Nasdaq alongside some of the world's leading technology stocks. In India, the event was greeted as the coming of age for its oftware industry. With other Indian compa-

nies planning Nasdaq listings. Nandan Nilekani, managing director of Infosys. says the industry is moving on to a new plane: Indian software companies will enjoy a higher international profile, their access to capital will be enhanced, and companies will have lucrative share-option schemes (in dollars, of course) with which to attract talented software engineers.

The infosys listing is a tesament to the extraordinary progress made by India's software industry - the nation's only outright success story of the 1990s.

For the past eight years, the sector has expanded at annual rates of more than 50 per cent. The growth forecast for this year is 70 per cent. The value of the Bornbay market software index has risen 15-fold since the start of 1997.

The industry, whose star performers include Infosys, Winro, NIIT, Satvam, Tata Infotech and Pentafour, now commands a market capitalisation of \$15bn. And this does not include Tata Consultancy Services, the largest Indian software company, which is still in

Export earnings, estimated at \$2.6bn this year, are still modest but are growing rapidly. The government is predictably upbeat. A National Task Force on Information Technology recently set a target of \$50bn exports by 2008, by which time it predicts software will be India's biggest export. Many industry insiders believe that target is too conservative.

And yet the industry is not 20 years old. The first software companies were estab-



cent.

when the government less than a quarter of reveremoved tariff barriers and began to encourage inward investment from US technol-

was not just low wages that attracted companies such as Texas instruments, Motorola and Oracle: the educational standards of young Indian programmers and their command of English were seen as important advantages over competing locations elsewhere in Asia or in Eastern Europe. Foreign investment sourced local imitators and the creation of wealth on an unprecedented scale.

Nevertheless, a small numthe phenomenal growth of this decade was at least partly due to an accident of The Year 2000 computer

wave of demand for services which could not be met by the available pool of pro-grammers in Europe and the US. So problem solvers began outsourcing some of the work to India.

"God's gift to India was Y2K," says Srinivasan Raju, executive director Satyam. But will the country's soft-

ware entrepreneurs have a future once current Y2K proiects are completed? Dewang Mehta, head of

the National Association of Software and Services Comresents most Indian software has developed enough to and provide all the infraflourish beyond 2000. structure demanded by high Already, big companies earn

nues from Y2R re-coding

work; some less than 10 per

Mr Raju, of Satyam, says Y2K work gave Indian companies the resources, international credibility and project management skills to progress to more complex and higher value contracts. This is not to ignore some big obstacles in the path of the industry's future devel-

First, an industry that took off because of its lowcost base is now beginning to suffer from the impact of akills shortages and wage inflation. The salaries of ber of sceptics suggest that Indian software programmers are still only one-third India's software industry of their US counterparts, but they are rising at a rate of 25

to 30 per cent a year, according to Mr Nilekani of infosys. "Unless we are able date problem triggered a to get commensurate increases in prices we will be squeezed on margins," he

> The high cost and poor quality of India's stateowned telecommunications is another barrier to growth, and the industry is lobbying for faster telecoms reform, with some success. In January the government announced an end to the

public sector monopoly in internet service provision, and last week the telecoms It competes with other forces regulator ordered big cuts in fees for leased lines. But if India is to reach its panies (Nasscom), which rep-target of \$50bn software How the software industry

tech companies.

Just air-conditioning the offices of the high-tech sector will require 2,250 MW of power in a country where power blackouts are endemic : and force most software companies to rely on

back-up generators. Nirmal Jain, managing director of Tata infotech, believes companies will only succeed in higher value services if they have expertise in business sectors as well as programming. We have to build vertical industry capabilities which will help us go up the value chain," he says:

Some companies are planning to develop niche products which do not compete directly with existing market leaders. Others want to develop products that can be sold on to US software

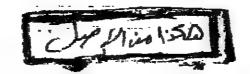
Most are under no illusions about the fierce competition they will face from existing software companies and established global consultancy firms. But they believe they will benefit from two fundamental changes in the IT landscape: the growth of the internet and the development of

e-commence. "This is a new market where there is no clear leader, says N. Krishna Kumar, chief executive of Wipro Infotech. He says Indian companies are poised to develop e-commerce systems, content, interfaces, network management. encryption, and business support systems such as on-

line billing. Moreover, the internet has given the Indian entrepreneur a bridge with which to reach customers, regardless of marketing budgets or geo-

graphical distance. "On the internet I am just another John," says one of-India's top software executives. "No-one can tell I am a brown John."

Many in India believe the software industry is the most powerful modernising force in their country-today. - organised labour, religious fundamentalists, oppressed castes - some centuries old. exports by 2008, it needs to fares in this contest will companies, says the industry educate 1.5m programmers, shape not only its own success, but the kind of country. India will be in the new mil-



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FINANCIAL TIMES

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Monday March 15 1999

A fresh look at jobs for Europe

The absence of Oskar Lafontaine from today's meeting of Euro- and rigid national wage bargainpean finance ministers is likely ing structures and excessive regto create a new dynamic in the ulation - such as on shop hours discussion of economic policy. But whether the resignation of the former German finance minister results in a sharper focus on Europe's deep-seated problems remains to be seen.

The Euro-11 committee for countries in the single currency area is due to consider several different topics which bear on the problems of faltering growth and high unemployment. Mr Lafontaine was the most prominent of those who saw the solution as a stimulus to demand from lower interest rates and co-ordinated domestic policies,

His view was strongly reflected at the recent congress of European Socialists in Milan and seemed likely to be influential in shaping the "European Employment Pact", which is being prepared for the European Union summit in Cologne in June.

His Keynesian prescriptions gained most support from those who see them as an alternative to the harsher requirements of structural reform. The importance of the latter has been urged by Tony Blair, the UK prime minister, and in a European Commission report to today's meeting of Ecofin, the committee of all 15 Mance ministers.

The list of structural obstacles to growth is a long one: it includes excessive regulation, laws on working hours and the

in Germany.

In most continental countries excessive taxes inflate the costs of employment and welfare provisions create big disincentives to

Although the political cost of dismantling such barriers is often high, there has been a general consensus towards at least some liberalisation. In France. for example, small businesses are being relieved of 37 administrative burdens and some of the complexitles of the tax system.

Unfortunately, such impulses are more than counteracted by wrong-headed intervention in the labour market, most notably the imposition of a 35-hour week. In France, as in much of the

rest of Europe, two things are now needed. The first is a reemphasis of the need for reform. The second should be a recognition that Mr Lafontaine was half right. Europe is suffering from a deficiency of demand.

Fiscal reflation is off the agenda; but the European Centrai Bank could and should lower interest rates. This would put an end to a disruptive public argo ment stirred up by Mr Lafontains and encourage the other finance ministers to return to the harder task of long-term reform. Much needs to be done. There is little time to lose in creating a consen-

Clinton mediates

Gerry Adams, the Sinn Féin pres-Among David Trimble's Ulster whole process risks collapse. Unionists, distrust of the US pres-

governments are hopeful that Mr. Clinton can kick start the peace process when he welcomes Northern Ireland's leaders at this week's St Patrick's Day celebrations in Washington, Tony Blair wants him to use his considerable leverage over Sinn Fein to press for an early start to the process of IRA arms decommissioning Bertle Ahern, Ireland's prime minister, hopes that if Mr Adams is willing to compromise, Mr Clinton can persuade Mr Trimble, Northern Ireland's first minister elect, to accept some-

destruction of arms. The deadlock centres on the agreement. Most of that agree of a Northern Ireland executive.

President Bill Clinton has as Féin cannot take its place on the good a chance as any intermedi- multi-party executive unless and ary of breaking the impasse until the IRA has begun decombetween unionists and republi- missioning. Mr Adams retorts cans in Northern Ireland. For that the destruction of arms was never a precondition. Unless the ident. Mr Clinton's approval is impasse is broken by this year's vital to his political legitimacy. Good Friday on April 2, the

ident has given way to a certain Féin may be right that the settle-So both the British and Iriah link between decommissioning and the creation of the executive. But, and Mr Clinton accepts this, it does impose a powerful moral and political obligation on republicans to begin the process of disarming. If Northern Ireland does return to violence, there will be no doubt where the blame lies.

And in practical terms, were Mr Trimble to accept Sinn Féin into the executive without any movement on arms, he would almost certainly lose the leader-

workable compromise. It requires that Mr Clinton extract assurances that disarmament would accompany, if not precede, Sinn Fein's entry into government. Those promises would have to be credible and detailed enough to win endorsement from the independent decommissioning body headed by General John de Chastelaine. To that end, Mr Clinton must apply strong pressure on Mr Adams while seeking to per-

In strictly legal terms Sinn

abin of his own party. That said, there may be a

snade Mr Trimble.

Leaving the fold

Michiyo Nakamoto meets a new generation of Japanese workers who have forsaken the security of lifetime employment in search of more fulfilling careers

🖣 osbiaki Iba hardly strikes you as a radical. Polite, unassuming and conservatively-dressed Mr Iba seems the model Japanese businessman. But his personal history would make many Japa-

Since leaving a secure job with Japan's ministry of posts and elecommunications six years ago he has held seven jobs at seven

His latest, as senior analyst for l'okyo-Mitsubishi Securities, is unlikely to be his last. "I want the number of jobs I have held to reach double digits," Mr Iba

In Japan's consensus-oriented society, people like Mr Iba used to be the proverbial nail to be hammered back into the board. But job prospects are changing in Japan. Last week, Sony announced plans to fire 17,000 workers - only the latest example of huge job cuts at Japan's big companies that are ending the country's traditions of lifetime employment.

It would appear that Japan is dishanding the army of submissive corporate soldiers who supported its rise to economic superpower. As the country faces a need to restructure its economy, individualists are moving from being distasteful eccentrics to models of hope for renewal.

There are three broad reasons for this. First and most important, there is a growing view that the economy needs to modernise and that it requires new types of workers to do that.

"While labour costs in Japan were cheaper than in the west, it was possible to copy the west and succeed. But now that labour costs are higher in Japan, we must come up with ideas that neither the US nor Europe can come up with," says Harno Shimada, economics professor at Keio University in Tokyo. "For that, we need people who are serving vested interests." he willing to take risks and can do says. something different."

Japan's economic miracle relied on a system that required loyalty from its workers and a collective will to rebuild the to leave the ministry. "But I felt I nation after the war to catch up "Western values" - individual-

ity, creativity - had little place in that order. Corporate salary men, bureaucrats, academics and politicians all had a role to play in "Japan, Inc".

In return, Japan's particular brand of post-war socialism rity and equality that was the envy of many industrialised countries. If the US offered equal opportunity and widespread inequalities of income, Japan's social capitalism provided equality of outcome but often unequal opportunities.

"In the digital age, what used to be the strengths of [a company likel Matsushita - the lovalty and uniformity of employees have increasingly become weaknesses," says Masatoshi Harada, manager of the personnel section at Japan's largest consumer electronics manufacturer. "It is important to murture individuality. We want more unusual people with unusual talents to join Matsushita."

At the same time, many Janenese are losing faith in a system that was based on the promise that everyone was working to create a better Japan.

When he decided to become a bureaucrat, Mr Iba believed he would be working for the good of

the country. That may have been Tokyo. But as Japanese compatrue when Japan was striving to raise its living standard to the even long established companies level of the west and the growing economy benefited everyone. But changed their attitude towards now that the catching up has been done, "the actual work we did had nothing to do with the good of the country. We were carn money," she says.

A graduate of Tokyo University's prestigious law department, Mr lba recalls that his family was upset and puzzled by his decision could not do such a job even if I were paid very well."

For a growing number of young Japanese like Mr Iba, the social values handed down by the older generation ring hollow. If questionnaires are anything to go by, younger Japanese have become more concerned about "nersonal fulfilment" than even

According to a recent poll of 1,000 people between the ages of 18 and 24 in Japan and several other countries, conducted by Japan's Management and Co-or dination Agency. 29 per cent of Japanese youths think people work to fulfil their potential. against just 7 per cent in the US and 10 per cent in the UK. Only 59 per cent of Japanese said people work to earn a living, compared with 90 per cept in the US and 88 per cent in the UK.

That may reflect the second broad reason why individualists are the new heroes of the Japanese workforce: the relatively recent ending of lifetime employment which, in the US and UK. either ended long ago or was never strongly established.

When I graduated from college 20 years ago, most men expected to stay in the company they joined throughout their working career," recalls Yuko Sakiyama in the placement sec-

nies trim their workforce and disappear, "students have work. They choose jobs that they feel are satisfying rather than joining a company in order to

One result of the trend is higher unemployment, as people increasingly seek - and reject jobs. Official figures for joblessness in Japan put it at a modest 4.3 per cent, although that still is a record. Unemployment among 15- to 24-year-olds was put at 7.4 per cent, according to the Ministry of Labour. But many

friends were busy doing interviews with big-name companies, Mr Ogura was too busy running his business to make it to the company visits. "I thought very seriously about

Tokyo's Hitotsubashi University.

At a time when most of his

or continue the business," he migaseki [home to many central says. "My parents were very opposed to the idea of me not getting a job, but I wanted to do something that would have an impact on the Japanese econ-

Although he was a lone figure in a university whose students first female bureaucrat to be are widely sought after by top argue Japan's official figures companies, Mr Ogura believes

'Students have changed their attitude towards work. They choose jobs that they feel are satisfying rather than joining a company in order to earn money

"retired". Economists put the that they will become indepenreal unemployment figure at 10-12 per cent of the workforce.

The number of jobless has triggered alarm in some corners, but the more flexible attitude towards job mobility is also a sign that Japan is moving towards the kind of labour market needed to revitalise the economy by encouraging new types of work and new companies.

Although still rare, vounger Japanese are keen to start their own businesses and dream of

becoming Japan's Bill Gates. Take, for example, Kazuhiro Ogura, who began his internet marketing and software company tion of Waseda University in while still a third-year student at

underestimate the real figure by, Japan is changing. "Most of my for example, counting 50-year- friends do not expect to stay at olds who have lost their jobs as one company for ever. Many say

> If Mr Ogura were to join a company, he says he would prefer a are occurring in the traditional small one where he could make a difference, rather than a large company where he would be just one among thousands. The third reason for the change

dent after a few years."

in Japanese attitudes to work Mr Shimada. So, too, is the belief. and, more broadly, in the expressed in an old Japanese nation's social contract, lies in the increasing participation of women in the workforce.

The division of labour between men and women is slowly, but steadily, breaking down as more women decide to continue working after marriage or childhirth. Nearly 50 per cent of Japanese

women work and the number of female managers, while still a minority, has risen from 190,000 in 1990 to 210,000 in 1998.

After giving birth to a daughter last summer. Mikie Kivo: returned to her job as director of the international press division whether I should join a company at the foreign ministry, "In Kasugovernment offices] there are many married female bureaucrats with children, especially among the younger generation. she says.

When Ms Klyol joined the for eign ministry in 1978, she was the recruited for two decades. Today. there are three (emale directors in the ministry, including Ms Kiyoi. "For female bureaucrats, (the ministry's) institutionalised equal opportunities [programme]

works positively," she says. Most Japanese women are less first victims of the recession were women graduates who could not find jobs as companies cut back on their female recruitment.

By western standards, the pace of change in Japan is excruciatingly slow. After all, in spite of calls for greater individuality by personnel managers, Matsushita employees still sing the company song twice a day.
But the modest changes that

mind-set may provide Japan's best hope for revitalisation.

"The need the Japanese feel to be the same is the root of many of the country's problems." says proverb, that "it is better to seek shelter in the shadow of a big tree". But Yoshihiko Ohashi, who gave up a 13-year career with Nissan Motor to join a foreign consultancy firm, believes it is a need the country must shake off. He says: "The choice Japan faces

French banking

France. One as large and politically sensitive as Banque Nationale de Paris' bid for Paribas and Société Générale is unprecedented. French dirigisme has offered little scope for the crude Darwinian battles of English and American capitalism.

So as BNP breaks the mould, it is important to ensure that the restructuring of the French banking system takes place on a level playing field, under rules which make the interests of shareholders paramount and allow a speedy resolution.

On the positive side, France now has a coherent framework for the conduct of takeovers, thanks to the establishment of the Conseil des Marchés Financiers, the self-regulatory authority set up in 1996, which has drawn up a reasonably transparent rule book. The CMF performed respectably in the 1997 battle between Rallye and Promodes for the retailer Casino and has shown keen interest in the rights of minority shareholders.

But the BNP bid will be its biggest challenge yet, and battles of this kind tend to test rule books to the limit. It is essential the CMF be seen to be scrupulously neutral, not least because its chief, Jean-François Lepetit, is himself a member of the banking

establishment That might reduce the chances of the bid ending up in the decide their best interests.

protagonists in French corporate restructurings tend to seek satis-faction. The banking industry, which needs to reform quickly to face mounting European competition, cannot afford a prolonged legal battle on top of a formal bid

The French government, which blessed the Société Générale-Paribas merger that triggered BNP's bid, seems for now to be restraining its interventionist tendencies, but it could use several channels to influence the

national security. It should hold its hand. Persistent dirigisme has done much damage to the French banking industry over the past 20 years. Apart from reviewing the competition aspects of the bid, the government should stay on the sidelines, and allow shareholders to

Do that mandarin thing again

Taiwan's starved of official recognition from most countries in the world, due to a diplomatic tiff with a certain large neighbour to the west. But that doesn't mean it can't have any fun.

its foreign ministry, in an attempt to boost diplomatic morale. Most pundits would link the ministry with the Chinese republic founded in 1912, whose government was later chased off the mainland by the Communists But tracing back Taiwan's

seem much more august. There's at least one difference though. In the old days, the diplomats were keen to fend off the over-eager attentions of

Today, that couldn't be less

All mod cons

the state of the s

the phenomenon is about to pop up in the Balkans. Although the word condominium sets Observer thinking of high-rise buildings

and tenants' meetings, that's probably due to a woeful lack of a classical education. Latin scholars can see at a giance that the word implies shared ownership, indeed, the things have been around for

centuries. The Duke of Holstein and the Danes set up a condominium in the early 1700s, the British pondered another in Sudan at the turn of the century, and until 1980 the far-flung islands of Vanuatu were one under the British and the French.

The latest appearance of the c-word is in the disputed Bosnian town of Broko, where Nato troops are handing out leaflets to angry Serb residents to explain why it's good to be a condominium.

Back in 1995, as Bosnia's civil war drew to a close, the map-drawers couldn't agree whether the Serbs should keen Brcko, or whether it should be returned to its previous Mostem-Crost majority. A deal reached this month

meant the Serb and non-Serb

helves of Bosnia would share Brcko as - a condominium. Most people will have no expenence of such an explic concept. But the burghers of Broke may be in luck. Because in the more surprising examples of a previous existence the

American ambassador who runs the Balkan town was envoy to, of

dacha, Boris Yeltsin clambered Metislay Rostropovich flew back Some people have forgotten at least Rostropovich thinks so. He's livid at a poor review he got

play in Russia again. The cellist bridles at being ingrates. If you needed reminding

in December and says he'll never

So you thought Canada was squeaky-clean?

openness took a beating last week in that latter-day arena for international disputes: the World Trade Organisation. Canada tried to defend

It wasn't just that the Trade

sober-suited Canadians were too forthcoming with the filthy lucre. The Canucks, the WTO panel seid, just "outright refused" to tell them what they needed to know. Canada said it risked

compromising "cabinet privilege" if it gave up the relevant documents. But what about the country's good guy image? Observer knows there are attractions to playing the strong, silent type. But this might be going too far.

Robin sees red British foreign secretary Robin

Cook is having a torrid time. First the tabloid press discovered that he'd been involved in a liaison dangereuse, so Cook ditched his wife.

Then he couldn't quite make clear whether he was in favour of arms shipments to the war-tom country of Sierra Leone. Now the foreign secretary

admits he was slipped copies of draft reports by MPs. Parliament is buzzing with

speculation about Cook's future. Some people close to the top have even started musing on what to do should the foreign secretary be fatally winged. If he goes in the summer, word is he could be replaced by the popular Northern Ireland secretary Mo Mowlam. She's got a reputation for fruity language. But nothing compared to Cook's if the whispering campaign continues

Ginancial Times 100 years ago

To A Remarkable Extent

The Philatelic Craze Reaches

is to change or die."

A catalogue has been published in London in which the value of every postage stamp is given. In a letter accompanying the little volume, the publisher has sent us some interestina information on the stamp question.

It appears that the total number of all known varieties of postage stamps so far issued by the different governments of the world is 13,811, of which 131 are British and 3,843 belong to the British Colonies and Protectoretes.

The United States heads the list as the most prolific producer, with 287 kinds to its credit. Spain comes next with 278, followed by San Salvador with 272, and Uruguay and

Shanghai have 215 each. The rarest stamps are, of course, the most valuable. One Hawaiian stamp is appraised at £800, while two of the earliest stamps of Mauritius and one of British Guiana are worth £1,000 each.

The missed opportunities offered by the waste paper baskets of those who had correspondents in Mauritius some fifty years ago must make the mouths of the office boys of the present day

thing short of the immediate

meaning of the decommissioning clauses in last year's Good Friday ment, including the creation of north-south bodies and a new Anglo-Irish council, is now in place. But it can come into operation only with the establishment

Mr Trimble insists that Sinn

Hostile takeovers are rare in courts, which is where aggrieved

process which could last months.

The takeover needs the approval of a sub-committee of the Banque de France, though it would be hard for it to argue that BNP is not a fit and proper organisation. The government could (and should) examine the competition aspects of the deal, since the merged giant would account for a significant proportion of some markets. Less justifiably, it could apply pressure behind the scenes or, if the bid provoked strong labour opposition, intervene on grounds of

We all know Taiwan's a high-tech, go-getting place, churning out more keyboards. mouses and monitors than the world knows what to do with. What Observer didn't quite grasp is that the island is getting more venerable all the time.

Last week it rather racity celebrated the 138th birthday of

mandarins to the real things of the Qing dynasty makes it all

Western diplomats.

Some condominiums are in suburbs. Others aren't. One of all places. Vanuatu.

OBSERVER

Mournful silence

Remember Russla's heroic days of summer 1991? Mikhail Gorbachev was confined to his atop a tank and the exiled cellist. to Moscow to lend moral support against the hardline coup.

dubbed a has-been. "It's over," he says. "I don't want my concerts to be a punishment." Russia, he thinks, is full of that the inspiring time when Russia threw off Communism has gone - you just got it.

Heading north

The country's reputation for

subsidies for Bombardier, the aerospace company. The WTO wasn't impressed.

Ubermeisters thought all those

FINANCIAL TIMES

MONDAY MARCH 15 1999

THE LEX COLUMN

Dial D for defence

A good structure, not enough red meat. That is the likely verdict on Telecom Italia's defence plan announced last week. The acquisition of the minority shares in its Telecom Italia Mobile subsidiary, the conversion of savings shares into voting shares and the spin-off of non-core assets all look sensible.

What was lacking was any serious attempt to gear up its balance sheet. True, Telecom is promising to buy up to 10 per cent of its shares. But, at current market prices, that will cost only €7bn (\$7.63bn), increasing the group's net debt to £15hn. Telecom does not need to take gearing to the extremes proposed by Olivetti, which envisages net debt of about €42bn. But given Telecom's prodigious cashflow last year's earnings before interest, tax. depreciation and amortisation was €12bn - it could comfortably support borrowings

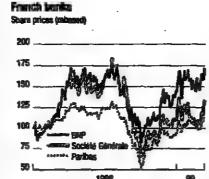
That apart, the industrial plan looks credible. Straightforward cost cutting of stock. But it could recast its offer so that €500m a year - roughly 5 per cent of its cost base - ought to be easily achievable. Indeed, if jobs are cut by 20,000 in the core

business, the savings should be bigger The integration of Telecom and TIM also makes sense. Fixed and mobile communications are converging and TIM's marketing expertise could be used to pep up Telecom's performance. In all, Telecom is promising annual pre-tax synergies from both cost-cutting and revenue enhancements - of €650m. Some of this, of course, could be achieved without taking full control of TIM. But the premium it is paying to the minority, about €2.5bn,

seems reasonably good value for money. Meanwhile, the conversion of savings shares into ordinary shares is being achieved by an ingenious market-based mechanism. The main niggle here is that Telecom is not employing the same mechanism for dealing with TIM's savings shares. Holders of these are being slightly roughly treated compared to TIM's ordiparv shareholders.

Olivetti, of course, is crying foul. The net effect of all Telecom's plans, if shareholders approve, will be to increase the number of ordinary Telecom shares by over 80 per cent. That would make it an altogether larger target to swallow.

But if Olivetti really has a good industrial plan - at the moment, a big "if" - it is not out of the game. True, it cannot naturally fit together.



continue with the same structure of offering ordinary shareholders mostly cash and bonds, while forcing the savings shareholders to stick with non-voting all shareholders are offered a mix of cash. shares and bonds. That would certainly be

French banks

It is France so, according to popular mythology, someone must be pulling the strings in this French banking drama. If not the government, then how about the wily Claude Bébéar of Axa, the insurance group? Well, at this stage he is a lone voice on the Paribas board in favour of accepting BNP's double-beaded bid for Paribas and its preferred partner, Société Générale. And with Axa's stakes in Paribas and BNP relatively small at 6 per cent to 7 per cent, surely it is far fetched to see him as the magus in this affair. What will majority of shareholders. Mr Bébéer has influence and so far has

used it to good effect. He helped prod Paribas into action by criticising it last year. By backing BNP's plan, he epitomises what should be a growing view in France that it makes sense to put two big domestic banks - BNP and SG - together, despite the wails about potential job losses. He is also supporting the effective break-up of Paribas - again something worthy of serious consideration as investment banking and consumer credit do not

One plausible conspiracy theory is that the investment bank could end up with the US firm Donaldson Lufkin & Jenrette, in which Aza has a controlling stake. It does look as though the "stand alone" part of Paribas in BNP's plan might be for sale. But all this assumes that it is only up to the French banks as to how they reorder the sector. In doing so, they might feel they are complying with the French government's desire to see a couple of French-based champions in the curo-zone. But the intervention of a foreign bank, such as Dresdner, could bust up the most promising domestic combination: that of BNP and SG. Even so, investors, including Axa, would still have profited from

Credit cards

if you are an 800h gorilla, you should throw your weight about. Citigroup's aggressive move in the credit card market, where it has left Visa's board to take beavy volumes of business to MasterCard, is just the kind of behaviour investors have wanted to see since last year's merger. Citigroup plainly wants to create a global consumer brand and is no longer prepared to share the limelight with Visa, currently the world's most recognise financial brand. It seems to have gained better terms from smaller

But this is more than just Citigroup exercising its new clout. It is also the kind of imaginative marketing the group needs, to realise its bold predictions about cross-selling. If Citigroup does produce a "Citicard" it may lose market share to Visa for a few years, but should strengthen its brand name in the long

It is harder to see which of the credit card associations is being cleverer. Vise has stuck resolutely to promoting only its own logo, while MasterCard appears willing to turn into a provider of back office services to the largest card issuers. Longer term, it is hard to see either ownership structure surviving. Both have about 23,000 member banks and as the Citigroup spat shows, the interests of smaller and larger members are diverging rapidly. It would be in everyone's best interests for Visa and MasterCard to go public as soon US NATIONAL SECURITY ADVISER DENIES HE IS AT FAULT OVER LEAKS TO CHINA

Berger refuses to resign over nuclear secrets loss

By Tony Walker and Nancy Dunne in Washington and Stephen Fidler in Peris

Sandy Berger, US national security adviser, yesterday fought back against accusations he had not moved quickly enough to protect the secrets of American nuclear weapon laboratories.

Mr Berger argued that it was not until 1997 that it became clear that security at US labs was inadequate. and by 1998 he had introduced "sweeping reforms" to protect scientific secrets. Speaking on US television, he said that he had no intention of resigning.

Allegations that China stole nuclear secrets from US National Laboratories in Los Alamos, New Mexico, have triggered several days of attacks on Mr Berger from Congressional Republicans.

The allegations are also threatening to sour the US-China relationship ahead of a visit by Zhu Rongii. the Chinese premier, next month.

The dispute is likely to untensify this week as wrangling increases

between the Clinton administration tee over publication of a top-secret report that accuses China of the theft of military secrets, including

neutron bomb technology. Leaks to China of information about the neutron bomb and secrets about the manufacture of miniaturised W88 warheads for the Trident ballistic missile mark two of the US's most serious security breaches.

Christopher Cox, a Californian Republican who is chairman of the House of Representatives committee, wants to release by the end of this month a de-classified version of the report, but the administration is seeking to limit disclosure.

Mr Berger referred to US-China policy now as "engagement with our eyes open". He said the president would raise the question of espionage with Mr Zhu. He described as "outrageous" suggestions that the spying was connected with campaign donations, allegedly channelled by Beijing to the Democratic

Wen Ho Lee, a Chinese-American and a congressional select commit- suspected of espionage at Los Alamos, was questioned for three days last week by the FBL Although there was never enough information to gain court permission to wiretap Mr Lee, he reportedly falled a lie detector test.

An individual privy to the House of Representatives committee's 700page report said it dealt with China's quest for neutron devices "which we don't have and they will. The Chinese had continued perfecting a heutron device "up to and including now", he said.

Arms control agreements prevent the US developing such weapons, which can be used on battlefields to halt an armoured advance by killing people without damaging equipment

The individual familiar with the report, who asked not to be identified, said there was evidence China had also been seeking neutron bomb technology from the Soviet Union.

EU may need own military staff to act without Nato, says Bonn

By Peter Norman in Eltville, Germany

The European Union may need its own military staff and policy institutions if it is to take decisions on military action without Nato resources, according to a German discussion paper.

Joschka Fischer, Germany's foreign minister, presented the suggestions to EU foreign ministers at an informal weekend meeting.

The paper is aimed at stimulating discussion ahead of the June summit in Cologne, where a strengthened defence and security policy is on the

The German ideas for a "common European policy on security and defence" would enable the Union to take and implement quick military decisions in crisis areas, such as Rosovo, without recourse to the assets and capabilities of the US-

dominated Nato alliance. Mr Fischer's paper, prepared by Bonn as part of Germany's role as cludes with a series of questions,

rather than proposals. But it also lists detailed requirements to give the EU a "capacity for action backed up by credible military capabilities and appropriate decision-making bodies".

The paper says decision making "may require": • defence ministers to join EU for-

eign ministers at their regular meet-a permanent body, comprising EU

representatives with political and military expertise; an EU committee of military rep-

resentatives: a military staff, with a capacity for analysis of situations, strategic planning and its own sources of intelligence:

other resources, such as a satellite centre and institute for security

studies. The German suggestions go further than the proposal put forward member states. by Robin Cook, the UK foreign min-

committee of deputy political directors from the EU states' foreign ministries that would steer EU foreign and security policy.

British officials said the German ideas were looking far into the future, whereas Mr Cook's plan was a precursor to a common security and defence policy. Both Britain and France, which

gave fresh impetus to a joint European security initiative at a summit in December, said the EU should focus on building military capabilities before creating institutions to run the policy. The German paper said countries

would need armed forces suited to crisis management operations. The weekend discussion reflected

a widespread desire among EU countries to escape what one diplomat called "US unilateralism" and domination on defence issues. But it raised difficult points for many

CONTENTS **Features** Inside Track Axia-Pacific New European News



Buds of Afghanistan peace: warring factions meeting

Companies & Finance

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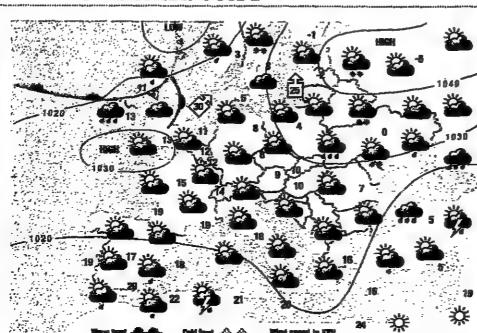
FT WEATHER GUIDE

Europe Inday

Scandinavia will have showers in the west but elsewhere it will be mostly dry, cold and fairly summy. will also be dry and sunny. France will be sunny, particular in the north Most of the Iberian Peninsula will be dry with a fair amount of sun but there will be Sol and Valencia and perhaps even the odd thunderstorm inlend from the Algarve. The eastern and sunny.

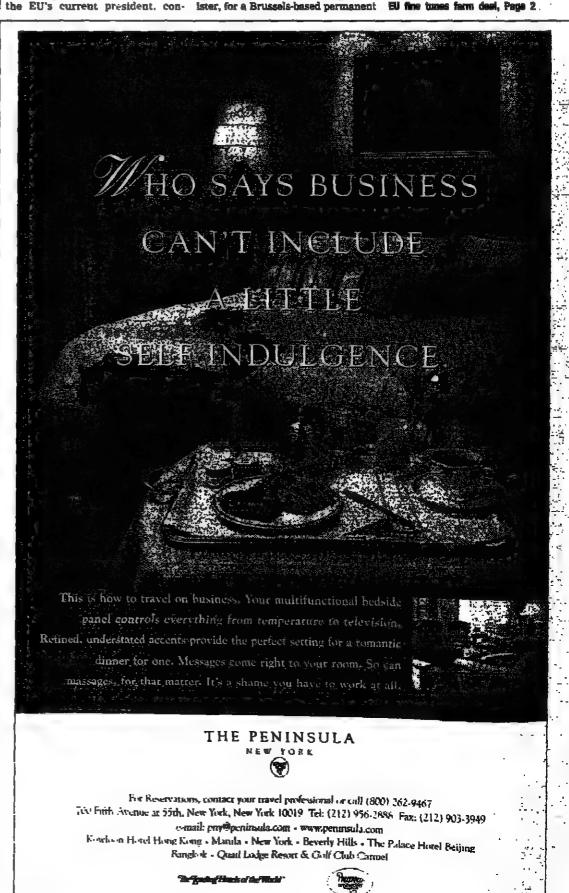
Five-day forecast

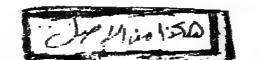
Scandinavia will be milder but very wet in the south with strong winds in the west. The easter fediterranean will turn much colder with heavy showers breat ing out. Western and central Europe will become rather mild and there will be plenty of spring



Special Reports

TODAY'S TEMPERATURES without control







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FINANCIAL TIMES SURVEY

MONDAY MARCH 15 1999

Consolidation enters more frantic phase

Pharmaceutical companies face increasing pressures to merge, writes David Pilling. Among them are expiring patents and the need for increased marketing muscle

High up in a plush office above downtown Philadelphia, a freshly-scrib-bled wall chart plots the near-endless only, says Mr Garnier, would that have permutations of merger possibilities in the pharmaceutical industry.

One axis depicts a company's exposure to patent expiry, the other the strength of its drug pipeline. The initials of several companies are dotted rival. across the grid according to their perceived strengths and weaknesses. The chart's author draws diagonal lines across the paper, showing which sets of companies are most likely to merge

The office and chart belong to Jean-Pierre Garnier, chief operating officer of SmithKline Beecham (SB). But they could just as easily belong to any senior executive in any pharmaceutical company around the world. Everyone, everywhere in the drugs business, is talking about one thing: consolidation.

To some extent, that has been true for at least 10 years. Double- and triplebarrelled names such as Glazo Wellcome, Pharmacia & Upjohn, Bristol-Myers Squibb, and Hoechst Marion Roussel bear witness to the merger spree that has already taken place.

But that process appears to have entered a new, more frantic, phase, at least in Europe. At the end of last year, three big European mergers were announced within a few weeks - Sanofi with Synthélabo in an all-French affair; Hoechst of Germany with Rhône-Poulenc of France; and Zeneca

of the UK with Astra of Sweden. Three further mega-mergers collapsed amid recriminations and culture clashes, including American Home Products' planned deal with SB and then with Monsanto. Most significant

been the first pharmaceutical merger to marry two genuinely strong companies, it would also have created a group with more than 8 per cent of market share - practically double its nearest

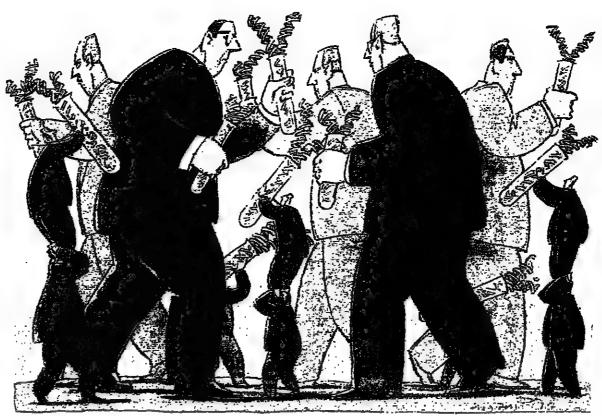
That highlights a contradiction within the industry that colours the consolidation debate. On the one hand, drug companies are gargantuan, making up an eye-popping eight of the world's top 25 companies by market capitalisation. Yet, measured by the scale of the \$250bn prescription drugs industry, pharmaceutical companies are relatively small. Not one has more than 5 per cent of market share.

Pharmaceutical executives like to argue that such logic is simplistic. The drugs market, they say, is not homogeneous, but sub-divided into distinct segments by therapeutic area such as cancer, cardiovascular, or vaccines.

That is true. Even so, Sir Richard Sykes, chairman of Glaxo, is not alone in predicting that the industry will inevitably become more concentrated, with fewer, bigger, companies grabbing a larger slice of sales.

Until now, many pharmaceutical mergers have been driven by weakness. Fast-growing US pharmaceutical the thriving North American market, have been shielded from taking tough decisions. But smaller European companies, gradually slipping down the league tables and outgunned in research and marketing spend, have been forced to act.

"Mergers happen because companies



have a trough in their product flow combined with some patent expirations." says Sidney Taurel, chief execu-tive of Eli Lilly of the US. "The short-term benefits of a merger which are rationalisations - can boost short-term earnings." Yet those gains

may only be transient. Dr Taurel argues that - for the moment - the biggest 10 to 15 drug companies have sufficient critical mass: they are large enough to absorb the escalating cost of research and to market their products globally. But as companies below that level merge, he admits. calculations about optimum size could change.

Many of the structural pressures to merge are intensifying. First, the industry faces a record number of patent expirations. The

mighty Merck will lose an estimated \$3.5bn of sales by 2002 as top-selling products go off patent, and Lilly itself must ride out generic competition to Prozac, its highly-lucrative anti-deprescompanies have been able to

survive such assaults on their earnings. Glaxo merged with Wellcome in the mid-1990s when its patent on Zantac, the anti-ulcer drug, was running out. And the looming patent expiry on Prilosec, Astra's record-selling ulcer product, was the main reason it succumbed to Zeneca's charms.

A related reason for mergers, says Peter Goldsbrough, senior vice-president at The Boston Consulting Group, is the gap between the high stock market valuations pharmaceutical compaoles enjoy and their ability to deliver ever-higher earnings. Such concerns are exacerbated by fears that the cost restraints being imposed in Japan and Europe could spread to the US healthcare system.

A third factor driving consolidation is the need for more marketing muscle as companies such as Pfizer hire evermore salesmen and pile more dollars into advertising campaigns. Many European companies do most of their business in flat domestic markets and are under-represented in North America, which accounts for an estimated 60 per cent of drug company profits. Hoechst and Rhone-Poulenc cited the need to build up US marketing clout as a principal benefit of merging.

A fourth driver is arguably the most controversial: the perceived need for scale in research and development. Advances in genomics, bioinformatics

combinatorial chemistry and highthroughput screening are revolutionalising the drug discovery process, but such tools do not come cheap. Cap Gemini, a consultancy group, estimates that the cost of bringing a drug to market rose from \$116m in 1976 to

\$500m in 1996. It is still rising. This technological revolution, argue some, is a decisive argument in favour of scale. "I do believe that big is beautiful," says Jim Niedel R&D director at Glaxo. "These technologies cost a fortune and they are all scaleable . a merger to me is still really attractive because cash is really good for

Only up to a point, says Peter Rin-grose, president of the Pharmaceutical Research Institute at Bristol-Myers Squibb. Size can bring logistical headaches, too, "There are elements where size helps, but I've yet to be convinced, particularly in drug development, that size really contributes to output," he says. "Some of the most productive discovery groups have not been the largest," he adds, pointing to the European division of Pfizer, which pumped out three-quarters of the US company's

A new surveys series for a 21st century business

Welcome to FT Life Sciences, the first in a regular series of FT surveys which will look at a business sector with an important and growing impact on human health, on man's sources of food and other materials, and on relations with the environment and

other living things.

The survey, one of several series now published by the Financial Times on global industries, will trace developments across the fields of pharmaceuticals and biotechnology. looking at the latest scientific and business developments and examining controversial issues - such as the current heated debates over the development of genetically modified

crops and animal cloning. In addition, there will be case studies, profiles and interviews in each ssue in which we analyse the approaches being adopted by groups and individuals working within the industry.

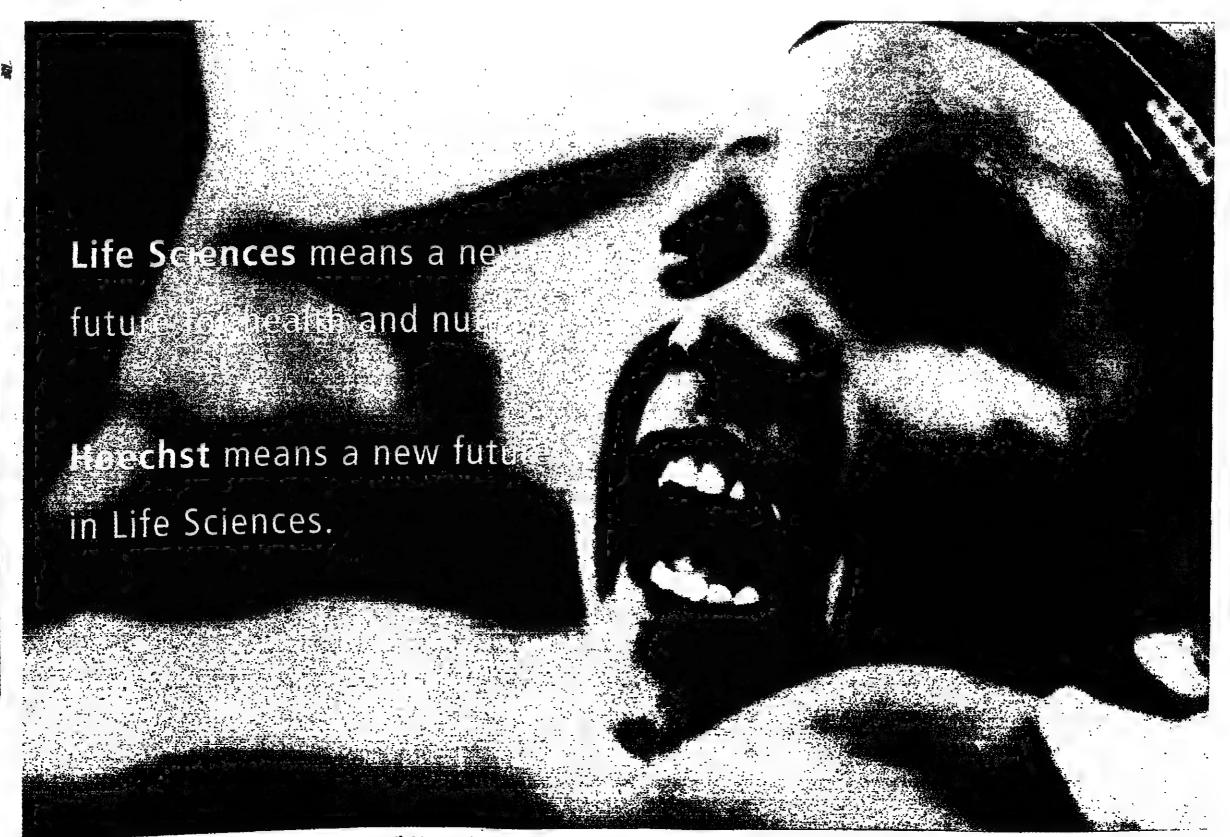
In this first issue we examine the forces that have been driving the consolidation of the pharmaceuticals industry, and ask whether the wave of mergers will bring the rewards predicted. Also in this issue we examine the latest developments i European biotechnology, a field in which the UK has hitherto led the field but where there are now some signs that other countries may be catching up. Individual articles will analyse what is happening currently in Germany, France, and the UK.

issues to be published later in the year, provisionally in July and October, will cover a range of topics including health management, Asia's drugs market, the genomics revolution, and the corporate and social implications of the rise in the number of older people in western societies.

We hope that you will enjoy reading this survey and that you will let us have your comments on the opinions advanced and ideas for future coverage. Please write to The Editor, Life Sciences survey. Financial Times. Number One Southwark Bridge. London, SE1 9HL, or send an e-mail t

For Hoechst. Life Sciences means focusing on the fields of health and nutrition where biotechnology holds the key to innovation. Hoech≤t Marion Roussel, our pharmaceutical company, is developing highly effective drugs in the fight against currently incurable diseases. Our agribusiness, Hoechst Schering AgrEvo, is ensuring nutrition for the world's growing population through integrated crop production.

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Strong demand shows no sign of abating

American companies, some with annual sales growth of 20%, have been largely immune from pressure to consolidate. They are the envy of their competitors across the Atlantic

For at least a decade mergers and raises the prospect had to focus on external means of a 5 per cent market share; but pharmaceutical sales have been of more to come. Companies value creation," says Clinton the US is much more concenbeen stalled by financial crises. pharmaceutical sales in the US managed-care revolution, ushered in under the Clinton administration, has curbed drug sales

to America's ageing population. According to the latest data from IMS Health, US prescription drug sales reached \$74bn in 1998, nearly 40 per cent of the total market. Prices, especially for new products, are better in the US, leading Goldman Sachs to estimate that drug companies derive at least 60 per cent of their profits from North America.

The strength of US drug sales has two main implications for consolidation in the industry.

Latin American markets has further behind their US rivals. have taken place between seconddence that most of those are

> Neither is it surprising that, in two of the recent mergers, executives have stressed the potential for an expanded HS calesforce to increase sales in the world's most lucrative drugs market.

> Second, uninterrupted growth in the US helps explains why American pharmaceutical companies have been largely immune from pressure to consolidate. Cutting costs hardly seems a priority for companies with annual earnings growth of 20 per cent.

"Given the positive perfor-

buoyant in the US. While govern- which sell the bulk of their prod- Gartin, a managing director at trated. According to Cap Gemini, ments in Japan and Europe have ucts in flat European markets - Morgan Stanley, which has been a consultancy firm, the top five sought to rein in drug budgets. where price and volume are highly active in the consolidation and the potential of Asian and strictly controlled - are falling of the drugs industry. "If the stocks in the sector begin to Virtually all the recent mergers soften I would expect to see managements change their focus and have roared ahead. Not even the tier companies. It is no coincipursue transactions aggressively.

Those implications for European and US companies lead to two further questions. Will scale bring the Europeans the greater US market share they crave? And how long can US companies rely on ever-increasing domestic

The first is easier to answer. Greater scale will not automati-cally mean better sales unless European companies launch competitive products and sharpen their understanding of the US

US companies dominate their tion behind recent European stocks, managements haven't sales no company has more than drug for arthritis.

companies have 31.3 per cent of sales, with Merck grabbing 7.4 per cent of market share, and Johnson & Johnson and Bristol-Myers Squibb a further 6.2 and 6.1 per cent respectively.

Of the European companies, only Glaxo Wellcome, SmithKline Beecham and Novartis make it into the top 10.

Nor are the market leaders resting on their laurels. Pfizer, Merck and several other US companies have been adding aggres sively to their sales forces. Europeans will have to do the same if they are to make an impression. So important has marketing

muscle become that even Searle, the medium-sized drugs division of Monsanto, has signed a comarketing deal with Pfizer to share the spoils of Celebrex. First, it explains one motiva- mance of the pharmaceutical domestic market. In worldwide Searle's probable blockbuster

exploiting the complex US mar-studies. ket. Not only must they persuade physicians to prescribe their product, they must also convince managed-care organisations to reimburse it, and pharmacy benefit managers to recommend it. ket is getting harder. Managed-They need to discount, give away

free samples and, increasingly, to create patient demand through direct-to-consumer advertising and internet presence. Gone are the days when drug companies merely had to release new drugs on the market, says Jean-Pierre Garnier, chief operating officer at SmithKline Bee-

cham, the Anglo-American company. "We are seeing a greater separation of winners and losers than 10 years ago. They all used to be fairly successful; now some are widely successful, some not at all "

Only products that can demonstrate significant cost benefits do

companies have proved adept at clinical trials known as outcome

That leads to the second question. How long will the good times last? Mr Garnier is among those who believes it would be dangerous to be blase. "The marcare is exercising more muscle." he says.

Many analysts believe that managed-care could begin to crack down on the drug companies, refusing to reimburse products unless they are proved to have a real economic benefit.

However, a public opinion backlash against managed-care could restrain it from playing too tough. There is also evidence that many managed-care groups have been persuaded by 'pharmacoeconomic" arguments that spending more on drugs cuts the total healthcare bill by reducing the need for hospital care.

The industry is also walting well, a process that may involve nervously to see the outcome of

Analysts say not all European designing enormously expensive planned reform to the Medicaid and Medicare systems, the government programmes for the poor and elderly. Reform could seek to curb rising drug costs, but the effects could be watered down during the run-up to the presidential elections.

One US-based investment banker believes the climate will get harder for drug companies. "Business has been a little too good for too long, but that's going to change. The stocks look pretty toppy right now."

Analysts have long been predicting the demise of the US market. So far they have been proved

Industry executives, however are constantly looking over their shoulder. "If the US market turns against the pharmaceutical industry," says Mr Garnier, "It will have a devastating effect on our companies' value."

If that happens, investment bankers will start circling with even more intent.

NICHE PLAYERS by David Pilling

Strategy for survival

Some industry minnows may be forced into merger or be taken over, but for others small may remain beautiful

Right down to the enormous for the mightly and the powfunkadelic carpet in the erful - in valuation terms it lubby of its Berlin headquarters. Schering feels different from other pharmaceutical technology company. companies. Friendly. . That puts it in roughly the relaxed, informal, Schering same league as companies is the type of place where such as Ares-Serono (Switcompany store or drop their mark), and Merck (Gerchildren off in the adjacent kindergarten.

it is not only the atmosphere that marks it out conglomerates, are not much from many other pharma- bigger. Nor does Searle, part ceutical companies. It is also of the Monsanto life science its size. For Schering, which group, have the financial has annual sales of about muscle of bigger rivals, DM6bn and a market capital- although its recent launch of Isation of less than \$10bn. is a minnow in a world of \$100bn sharks.

is only one-third the size of Amgen, a Californian bio-

many). The pharmaceutical divisions of Bayer and BASF, nestled in chemical a Cox-2 inhibitor, a likely

Although the German is widening. Six companies pharma" - industry jargon and Astra, Hoechst and

Rhone-Poulenc, and Sanofi sought to gain scale through increasing urgency about the need to spend more on R&D and marketing.

As consolidation takes hold, the question is: can Schering and companies like it survive? Is there, in other words, a niche strategy?

Guiseppe Vitta. chairman employees buy wine in the zerland). Novo Nordisk (Den- of Schering, insists there is, "The pharmaceutical market is not unified. Rather, there are 100 or so sub-markets," he says. "If you succeed in being number one in two or three of those segments, you can have a pleasant life as long as you keep innovat-

Certainly, the \$250bn marblockbuster, should help. fragmented. Sales forces spe-The gap between the tiers cialise in different areas group is categorised as "big from division two - Zeneca or diabetes. Even the biggest

on particular disease areas and Synthelabo - have Competition between drug companies is often more evimerger. Executives talk with dent within these market segments than across the industry as a whole.

"We are only active in about 4 per cent of the pharmaceutical market, but in the niches where we are present we are extremely successful," says Klaus Pohle, vice-chairman of Schering. The company concentrates on hormones and fertility treatment; diagnos-

tics: and multiple sclerosis. Nevertheless, many companies of Schering's size will be forced to club together in search of scale, or will become takeover targets. Peter Goldsbrough, senior

vice-president at The Boston ket in prescription drugs is Consulting Group, says companies that concentrate on core capabilities may be able such as neurology, oncology, to pursue an independent strategy. As consolidation research operations hone in runs its course he expects to

Company	Merket cap" (Sbri)	Company	W
lerck .	198.0	Zenéce ¹	
Naer	179.9	Ours'	
Install-Myers Squibb	125.7	Monsanto	
lovartis	122.9	Pharmacia & Upjotin	
lache	118.6	Bayer	
izm Wellcome	114.6	Hoechst ³	
I Uni	105.0	Sanofi ²	
chartng-Ploogh	82.9	BASF	
merican Home Products	82.0	Pinone-Powenc ³	
mithidine Beecham	60.7	Synthelabo ²	

- At Star 10 1999 1.2.3; Plant to marga

see "a smaller number of that fully-integrated players bigger companies and a are going to need to be big in whole array of smaller organisations which are all

more focused' "The basic question for some of the smaller players is to think about how to focus. That may be a focus around a particular technology, around a particular market or around a particular capability such as developing products or manufac-

ture," he says. Although this does not mean a small company must concentrate wholly on doing brough calls "hollowing out" just one thing, "It is likely

order to be economically via-

27.5 24.7 24.8 20.8

Those which stay small will probably rely more heavily on outsourcing. Biotech companies provide basic research, enabling peoples laboratories." technologies and drug leads; contract research organisaother companies manufacmarket them. The trick is to decide what to focus on. The danger is what Mr Golds-

sourced bathwater. Mads Ovlisen, chief execu-

tive of Novo Nordisk, a Danish company specialising in diabetes, believes there is a future for small companies. "Our strategy is to try to remain independent." he says. "You have some advantages being small - flexibility and speed, but you have to compensate for lack of size in areas where the big boys have an advantage."

That means marketing partnerships where necessary and a network of alliances with biotech compaand academic institutions. "More than 25 per cent of our discovery has been shifted to other

Even Novo Nordisk, which is protected through the tions run clinical trials: Novo Foundation from hostile takeover, is not immune ture drugs, and yet others from market pressures. The company, which saw its - throwing the competitive portfolio, spinning off non-tory.

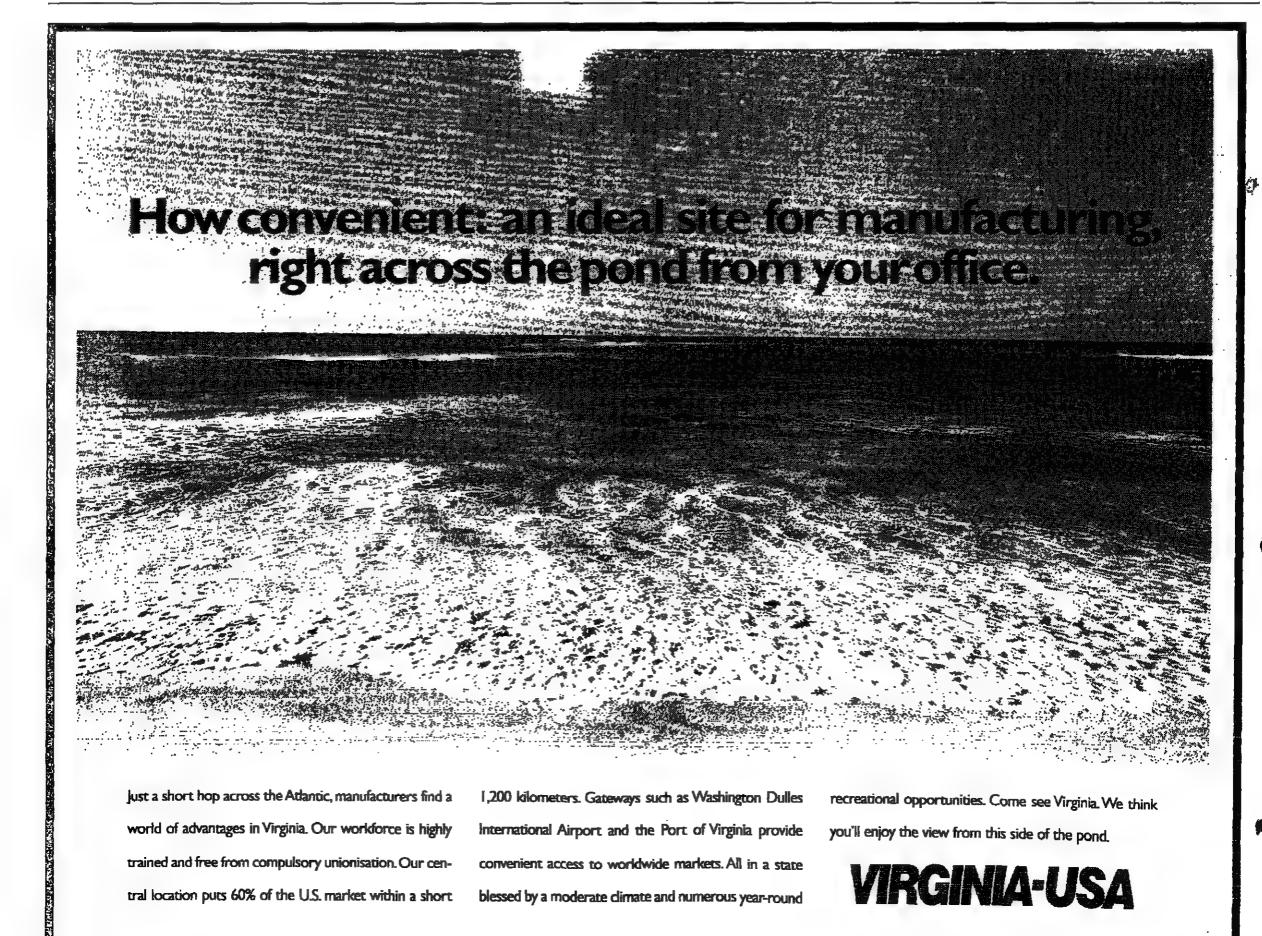
baby out with the out- core activities

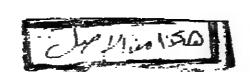
Novo Nordisk is not alone among the smaller companies in being protected from takeover. Others, such as Ares-Serono, are shielded by family ownership or, like Bayer, by a grab-bag of nonpharmaceutical activities.

But such protective walls can only withstand so much external pressure. The Wellcome Trust allowed Glaxo's takeover of Wellcome to proceed in the mid-1990s. And Hoechst's management decided to sell chemical and other businesses in preparation for its merger with

Rhone-Poulenc. Schering last year changed its statutes. making a takeover more feasible. If an offer were high enough, executives admit, they could not prevent shareholders

from accepting it. "There are a lot of medium-size companies out there. And I can believe that, in share price drop sharply at future, some of those will the end of last year, has merge," says Dr Vitta. "We been forced to restructure its are not yet at the end of his





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R&D by Clive Cookson

Development times static

Disappointment over the flow of new drugs may soon disappear; studies suggest a faster rate of NMEs is just around the corner

in 1851 the pharmaceutical launches since the mid-1980s, according to CMR. This find-Sonn on research and development. Last year R&D rependiture by the established drug companies broke through \$40bn - and the emerging hiotech companies spent another \$90n

Few other industries have increased their R&D budgets as fast as pharmaceuticals. and none - not even computing nor electronics - relies so beavily on its scientists, Most large drug companies spend more than 15 per cent of their sales revenues on

Unfortunately, the rise in real resources allocated to research has not produced a corresponding increase in the flow of new drugs on to genomics, combinatorial the market - or at least, not yet. The UK-based Centre for Medicines Research International (CMR) reports that are taking longer to feed only 35 "new molecular enti- through the R&D pipeline only 35 "new molecular enti-"ties" were launched on the world market in 1998, the · lowest total since 1979. (NMEs are new drugs rather than reformulations of exist- of a new molecule to the

industry spent just over when CMR consistently ing surprised delegates at an recorded 50 to 60 NMEs per year. To some extent, these decline in R&D output because the industry in the 1980s was prone to develop "me-too" medicines designed to imitate and cash in on successful drugs already on the market. Today's new products are more likely to be genuinely innovative.

Even so, it is disappointing that we have not yet seen a sustained upturn in drug introductions, which senior pharmaceutical researchers have been forecasting for several years. The benefits of new technologies - such as chemistry, high-throughput screening and bio-informatics - and better management than optimists had expected.

The average development time for drugs (the period from isolation or synthesis

international meeting held last year to discuss the data. figures may exaggerate the given the industry's strenuous efforts to streamline clinical trials and the fact that most regulatory authorities have accelerated their approvals process

The reasons why develop-

ment times remain disappointingly static are not clear. Possibly, new technologies that will save time in the long run cause delays in the short term because they require researchers to learn very different ways of working. For example, the traditional role of a medicinal chemist - synthesising pure compounds one by one - has changed radically now that the process has been miniaturised and automated so that thousands of compounds can be made at the same time.

Biotechnology enthusiasts may also have underestimated the technical complexity of the new genetic targets. At the same time, a date of first marketing) has different attitude is required Indeed, there has been a remained stuck at 10 to 12 to manage a research prodownward trend in drug years since the mid-1980s, gramme in which the tradiR&D expenditure

tional shortage of biological targets for drug discovery has suddenly become a glut.

The CMR's analysis suggests that the largest compathe new R&D environment no correlation between commance of large and small

R&D take almost two years over the next few years less on average to develop a new drug than the rest of the industry.

However, detailed studies nies are making better use of of the industry's R&D pipeline suggest that a more subthan their smaller competi- stantial decrease in developtors - a possible incentive to ment times and increase in merge. Until 1992, there was new drug launches are around the corner. Stuart pany size and development Walker, CMR director, foretime; since then, the perfor- casts that the top 12 R&D spenders will introduce prodcompanies has diverged, so ucts at an average rate of 1.6 of Scrip: 3.636 of these were that the top 15 spenders on NMEs per company per year in clinical development. The

double the rate of the past 10 years. Whether the largest companies will be able to deliver on promises to anti-infectives (9.0 per cent). deliver two to three new drugs a year remains to be

- - قائمت تعمد د . . .

The pharmaceutical industry as a whole had 11,307 R&D projects last year, according to the Pharmaproiects database maintained by PJB Publications, publishers

was neurological with 18.4 per cent, followed by anticancer (11.5 per cent) and

When the industry's R&D pipeline is broken down by company, the database shows Novartis of Switzerland in the lead with an astonishing 208 R&D projects in progress last year; the company itself says the total is 166. Hoechst Marion Roussel of Germany is in second

Such large numbers could be a sign of research strength or of management weakness - not being ruth less enough to kill enough weaker projects and concentrate resources on the most promising leads. Pfizer of the US, the industry's biggest R&D spender and the company judged by many analysts to have the strongest development pipeline, runs

A substantial increase in R&D output is likely to require even larger R&D budgets in the medium term. as companies push more drugs through clinical trials. The pharmaceutical analysts at Lehman Brothers believe that R&D expenditure will rise to 18 per cent of sales after 2000.

However the R&D cost per compound will begin to fall as more drugs move through the pipeline. At present the total cost of bringing a new medicine to market is staggeringly high. Lebman Brothers estimated the average at \$600m for a drug whose development started in 1995, of which \$170m is the cost of the drug itself and the remainder is its share of the money spent on other compounds that failed during the R&D process. The overall cost will fall over the next 10 years to \$450m per successfully marketed NME, according to Lehman.

■ The 1999 Pharmaceutical R&D Compendium, produced jointly by CMR Internation and Scrip Reports, costs £1.495 for four volumes.

MERGERS by Virginia Marsh

Marriages tend to be short on bliss

Consolidation is leading to mega-mergers. but some observers believe alternative measures may offer better value

merging (

neglected a fundamental

is now considered weaker

As in other sectors, some

than some of its rivals.

intangible assets

'A common failure is for

ident at A. T. Kearney.

Barrie James, of Pharma

know where there are prob-

entity fell.

employees.

With the merger of Astra and Zeneca imminent, and value ignores the issue of lioechst and Rhone-Poulenc what would have happened rolling their life scionces to some companies if they nusinesses into Aventis, had not merged. Glaxo and consolidation of the Wellcome, for example, both pharmaceuticals: secret faced important drugs comcontinues anace. But while ing off patent, stock markets often react avourably, research by deliver value in the longer driven partly by geography

Many consultants say the they needed a stronger presblg is better" syndrome. largest healthcare market. seeing mergers as a panacea But some consultants say environment for R&D, is for the problems created by that while SB benefited from watent expiries, greater putting Beecham products ompetition, the rising costs of developing drugs, and biotic, through its US arm's sales network, the group increasing pressure on bealthcare budgets. problem, its pipeline, which "The 'we're one step away

a blockbuster mentality permeates the sector," says Raymond Hill. deals have been too ambivice-president at consultants A. T. Kearney. tious, over-stating the likely Instead of diversifying cost savings and synergy through mergers, be argues, benefits. The immediate companies should focus effect of the merger in late their portfolios and try to 1996 of Pharmacia of Sweden uchieve positions of and Upjohn, a US rival, for dominance in particular therapeutic areas.

Using an economic return A common failure model - which adjusts earnings by capitalising in mergers is R&D investments over 10 years, and selling and for companies to marketing of products over three years - Kearney says pay too little mega-mergers have so far failed to increase the attention to the combined economic return of the predecessor companies. On this model, Johnson. and Pfizer, example, was a series of companies that have profits warnings and the Schering-Plough, Johnson & eschewed big mergers, come

out on top. Their stock market performance has also been impressive - Pfizer, for example, has outperformed the world pharma sector by more than 200 per cent over the past decade - and it was well chead of its peers even before Viagra, the anti-impotence drug.

Shares in SmithKline Beethe real estate and the prodcham, an Anglo-American ucts, and to pay too little merger, have outperformed attention to the intangible the world sector by a more assets, the ail-important modest 25 per cent over the intellectual capital which same period, and the group lies in the people," says is ranked near the bottom of Richard Findlay, a vice-presthe 15 big pharmaceutical companies Kearney surveyed, as are Novartis and Strategy Consulting, adds Pharmacia & Upjohn, also that competitors are often

products of mergers. Glavo Wellcome, formed quickly and try to pick off through Glaxo's £9.1bn hos- the best people. Companies tile takeover of its UK rival can then have difficulties in 1995, now has a market restocking talent. People great. capitalisation of £72bn, compared to the companies' com- lems," he says, citing Novar- mergers and all the upheavbined £26bn before the tis (the Swiss company merger, but - together with formed from Ciba and Bristol-Myers Squibb, an Sandoz) as an example. it is only in the middle of have become unstuck biotech and smaller pharma Kearney's value creation through their own generos companies that are pioneer-

Wellcome admit the group lost some staff it would rather have retained - many were seduced by the size of the redundancy package. This method of assessing Paul Hemsley, an ex-Well-

come employee, now a consultant at Ernst & Young. says that while much attenfion is often devoted to filling top management positions, companies have offen: failed to identify key staff Earlier deals such as the eisewhere.

consultants suggests the man of the US and the UK's enough in the new organisamajority of mergers fall to Beecham in 1980 were also tion. The key scientists can European companies felt junior level." he says. The business culture of a

industry is suffering from a ence in the US, the world's life sciences company. including creating the right critical - and often underestimated, says Pharma Stratesuch as Augmentin, an antigr's Dr James. Bill Castell, chief execu-

tive of Nycomed Amersham, the Anglo-Norwegian diagnostics group, says: "Before our merger I knew countries had cultures but I didn't fully appreciate the extent to which companies do too." The former Amersham

executives, he says, came from a small company background where cash was always tight; at Nycomed. managers were more used to having financial resources to deploy when problems arose.

At the same time, some mergers have disappointed because they have tried to keep everybody happy and ended up lacking a common culture or a clear sense of direction.

Pharmacia & Upjohn, for example, initially kept on its previous corporate headquarters and created a new se in a neutral location. the UK.

"People were working in profits warnings and the departure of the chief execudifferent time zones for different pay and with different tive. Rather than growing. holidays. They never really merged," says Dr James. the profits of the combined

Settling down an organisa As in the IT sector, an tion after a merger can take issue particular to drug company mergers is dealing with Insiders at Bristol-Myers

the many highly-qualified Squibb, which recently appointed its third head of European operations in less companies to look at the than two years, say the company, formed in 1969, has physical assets of a merger, still not achieved manage ment stability, and talk of "a revolving door management". Dr James says that while

big pharma companies have been distracted by merger mania, the source of innovation has been shifting away from them: "The range of technology is too broad and quick to act. "They mip in deep for companies to keep up. Their expertise can decline very rapidly because the pace of change is so Rather than contemplating

the big companies should be focusing on outsomeing and forming alliances with the In other cases, companies ity. Executives at Glaxo ing many of the changes.



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Beyond the millennium

What can we look forward to in 2010? The twin drivers of change - scientific and technological advance and economic pressures - will influence on our industry and its operating environment, Indeed, the pace of change can be expected to quicken. But by 2010 will it be a case of promise fulfilled or promise tiwarted?

Some things can be predicted with some certainty. By 2010 we will be realising the fruits of the scientific revolution that is today unfolding. The knowledge and understanding of human genetics will have transformed our whole approach to the recognition and treatment of human diseases, including such acourges as Alzheimer's, heart disease, and many types of cancer.

The understanding of the genetic basis of many advanced, will have delivered unrivalled apportunities for improved diagnosis and treatment. We will have increasingly established that many existing conditions that today are diagnosed and virtually the same disease such as diabetes, in reality comprise numerous separate

We may not have reached the stage of Individual patient-targeted therapies; but broad patient subgroups will certainly have en classified. For these, the success of targeted therapies will be dramatically

higher than we are used to. The scientific revolution will be associated with a transformation of information networks involving all the key constituents in the healthcare sector from scientists through to the general public. Worldwide growth of internet usage will give ordinary citizens access to an enormous range of information in terms of therapeutic opportunities. In many areas patients could be almost as knowledgeable as their doctors about their conditions and treatment.

The charmaceutical industry must play a leading part in the transfer of learning from genetic and other pharmaceutical research through to medical practice and patient understanding.

This will certainly involve the pharmaceutical industry in a major knowledge transfer to healthcare professionals - the traditional audience for the industry. But it is also likely to encompass further direct communication by the pharmaceutical industry to the public.

These new pharmaceutical substantial change in economic policy towards healthcare expenditure. In many circumstances pharmaceutical therapy is already known to be the most cost-effective way of treating and preventing disease. I am convinced that by 2010 - and, with luck, much earlier pharmaceutical intervention will have become

investment in the long-term health of the population. Economic evaluations of healthcare will take an

increasingly holistic approach which will assess the impact of pharmaceutical therapy on the whole healthcare sector - and in many cases the whole economy.

This transformation of approach towards the financing of pharmaceutical usage, prompted by the wealth of scientific opportunity, will also lead to a reassessment of the relative contributions of public and private financing of healthcare. I expect that governments in the western world will need to redefine the responsibilities of the

It seems to me inevitable that a greater share of private funding - from private insurance as well as from individual patient purchase - will drive the evolution of new funding systems, and that during the next decade we will see a significant debate on this issue, leading to funding reform. I do not doubt that a state "safety net" or minimum guaranteed healthcare provision will remain; but i do expect that greater patient empowerment will go hand



Sir Richard Sykes: chairman

in hand with greater patient financial involvement and responsibility.

So what kind of pharmaceutical industry will we see by 2010? I am convinced that it will be very different. The die is already cast. The financial resources required to invest in the new diagnostic and therapeutic technologies, at a time when payers are squeezing revenues on the historic technologies and theraples, will result in fewer major companies,

No longer will the largest company account for just 5 per cent of the global market – as it does today. There are still significant economies of scale to be achieved.

But, despite this, I don't believe that any one company or small group of companies will be capable of monopolising the enamous growth of scientific knowledge and understanding that will have

occurred over the decade.

Alongside the pharmaceutical leaders, a sector of niche companies will continue to thrive, based on specialised knowledge and a narrow technological focus. The networks that will link these smaller, specialised companies with the unique competencies of the global "big pharma"

Not only will the charmaceutical industry be transformed in structural terms, its geographical configuration will also change significantly. Despite the downturn in Asia in the

dynamic and competitive

'By 2010 i believe Asia-Pacific [will] represent an economic powerhouse

late 1990s, I believe that by 2010 it will have been clear that the Asia-Pacific region does indeed represent an economic powerhouse for the 21st century. The pharmaceutical industry will

espond accordingly. The fact that effective patent protection is now increasingly being enacted in emerging economies will give confidence to the pharmaceutical industry to invest in these markets. That will increasingly include investment in research and

development activities. Today, around 80 per cent of the pharmaceutical industry is based on the needs of the developed markets; by 2010 I suggest we will see a situation in which today's developed and developing regions are seen as more clearly equal components of the global

pharmaceutical market.

I do also hope that by 2010 our industry will have built on the foundation of early promising partnerships with WHO, UN agencies and governments to bring about real progress in the widespread treatment of disease that continues to ravage the developing world such as malaria, HIV/ Aids-related diseases, and uberculosis.

The next decade has the potential to bring more significant change to the products, markets and structure of the biopharmaceuticals industry than any previous period in history. The pharmaceutical industry now has the opportunity to capitalise on a scientific revolution in genetics to achieve a revolution in its relationships with all the constituents of the healthcare sector - with medical practitioners, with financing agencies and. most importantly, with

One continent, two experiences

The UK's more mature industry is suffering from an investor backlash, while continental Europe's emergence provokes excitement

transgenic bull worth three times Dolly the cloned sheep? The answer is that Herman belongs to Pharming, a continental European company, whereas Dolly is the creation of PPL Theradepressed British blotechnology scene.

Pharming, which like PPL manufactures human medicines in animal milk, last vear raised \$75m in a stock market flotation that valued the Dutch company at \$175m. Meanwhile, PPL had to go cap in hand to investors in search of new funds. offering them a 30 per cent discount on its already weather-beaten price.

The contrasting experiences of the two companies reflect the divergent states of UK and continental European biotechnology. The more mature UK sector is suffering an investor backlash as investors learn how hard it is for biotechnology companies to turn bright ideas into profits. Continental Europe, by contrast, is enjoying a honeymoon, with many investors wooed by the groundbreaking science and intriguing investment opportunities offered by bio-

The birth of European biotechnology follows a 15-year period when the industry grew strongly in just two countries: the US and the UK. Although continental Europe boasts several worldrenowned scientific institutions, such as Germany's Max Planck Institute, biotechnology as an entrepreneurial culture never really

That is until now. In the

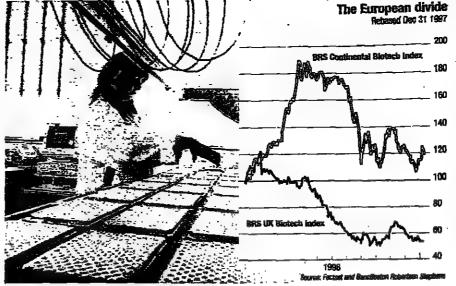
Why is Herman the past few years, rising unemployment, a nascent shareowning culture, and a shift in government and public attitudes have created an environment far more conducive to biotech. From Munich to Jerusalem, from peutics, part of the Paris to Copenhagen, and from Berlin to Reykjavík, biotechnology companies are sprouting up as scientists catch the entrepreneurial

> Although continental Europe still has fewer listed biotech companies than the UK alone, private start-ups are coming thick and fast in Germany, France, Scandinavia, and elsewhere. As second-tier stock markets such as Easdaq, the Neuer Markt. and the Nouveau Marche gain credibility, venture capitalists are more willing to bankroll early-stage companies, knowing there is a potential exit for their

"In a very short period of time we have seen an explosion of company creation," says Robert Zegelaar, partner at Atlas Venture. "There is world-class science, and there are now world-class companies in Europe."

The surge in activity has been most apparent in Germany, which for years shunned blotech as scientists stuck to safe jobs in academia or "big pharma". and the public put its economic faith in traditional industries. Then, in 1995, Jürgen Rüttgers, science minister, transformed the landscape by offering government funding to the regions that best promoted

Almost overnight, the sec-



only in "winning" regions such as Munich - now one of Europe's most important biotechnology clusters - but also in those, such as Berlin. that failed to qualify for BioRegio D-Marks, Since then the number of start-ups has doubled each year, to more than 300. This year. several companies are expec-

ted to list on the booming

Neuer Markt. France, initially ahead of Germany in establishing well-respected companies such as Genset and Transgène, has also begun to push biotech harder. Although it has not taken the German route of offering generous federal and state subsidies. the French government is changing tax and other laws with the aim of making it easier for early-stage compa-

ples to flourish. Elsewhere, blotech is also taking hold as companies such as NeuroSearch in Denmark. DeCode (Iceland), Biotech General (Israel), and Innogenetics (Belgium)

national pioneers. Often, though not always, they have done so with official

Government championing of biotech has provoked British envy. "We're just not seeing the initiatives for supporting biotech that we're seeing in France and Germany," says Nick Woolf, biotech analyst at BancBoston Robertson Stephens. "In terms of numbers of companies, Europe will catch up with the UK very swiftly.

In the US, where investors have wearled of biotech. it has not gone unnoticed that European companies have easier access to finance. "Continental European companies that are the equal of others around the world have done better because they have a more patient investor base," says Steve Burrill head of the US private merchant bank that

bears his name. Not that everything is rosy In Europe. Before Morphosys successfully floated in Gertor became respectable not establish themselves as many this month, both Phy-

tera and BioVector were forced to pull out of IPOs. And although European biotech shares outperformed their UK and US counterparts in 1998, there was a significant falling away at

the end of the year. Some analysts believe that process has further to go. The high-tech European stock markets, observers worry, are looking distinctly "frothy" as inexperienced retail investors pile into companies they barely understand.

There is also a concern that some companies are overvalued because they are seen as national champions. Their reputation locally can be mistaken for international status, and they often benefit from tax laws that make it more attractive to invest in domestic compa-

"Because there are only one or two companies on each market, supply and demand has probably built up a price that companies would not have achieved if make it at all.

they were listed on an international exchange like Nasdaq," says Mr Woolf.

Many investors also worry that, because of the flurry o corporate creation, it may be difficult to find managers with the experience to guide early-stage companies through to profitability. Unlike in the UK, where at least two companies are likely to receive US regulatory approval for their products this year, most European companies are years away from the market.

There's a lot of 'two professors with an interesting idea' disguised as companies," says Mr Burrill. "And

Helmut Schühsler of TVM. a German venture capital group, believes that European companies will have to merge in order to gain the necessary critical mass. He would like to see national high-tech stock exchanges fold into a Europe wide market in order to hasten that

The healthcare and technology division at Nomura Corporate Finance, which invests in early-stage companies, recently engineered the merger of Shield Diagnostics, of Scotland, with Axis Biochemicals, of Norway, both of which have developed a novel test for cardiovascular disease. But examples of such mergers are

Until consolidation begins in earnest, say analysis, the true potential of European biotech is unlikely to be realised fully. Being a national. or even a continental, champion is not enough. Blotechnology companies, and the pharmaceutical companies they serve, are international. In the end, companies will either make it on the global stage - or they will not

EUROPEAN ATTITUDES by Cath Blackledge

Benefits that go against the grain

research. Voters were swung by a

Public sensitivities, notably in the current debate over genetically modified foods, have been more acute than in the US

went shroad

10m tonnes of US soya beans and maize, about 30 per cent of it genetically modified, will set sail for Europe's shores this summer. But the majority of Europeans say they do not want it.

The US Department of Agriculture estimates it lost \$270m of trade last year as a result of blocked imports of maize alone. How much it could lose this year depends on whether European consumers continue to say "no" to the fruits of biotechnology.

Western Europe arguably gave birth to biotechnology in 1953 with the discovery in Cambridge of the molecular structure of DNA. But Europeans have treated biotechnology and its entrepreneurs with far greater suspicion than their US counterparts,

In 1986, public debate over the production by Novo Nordisk of insulin and human growth hormone using genetically engineered enzymes prompted Denmark into drawing up the world's first gene technology law. But the hurried legislation was so stringent that Novo Nordisk threatened to leave the country unless it was relaxed.

Three years later, in Germany, a lack of gene legislation forced Hoechst to abandon its plans for a factory to produce genetically-engineered insulin. The plant was even-

tually built in 1995 "Germany would probably be the biggest single biotechnology player in Europe today if it had been able to develop in a normal way," says

John Durant, chair of the European Federation of Biotechnology task group on public perceptions of hiotechnology. Prof Durant is also the co-editor of Biotechnology in the Public Sphere. In what is the most

up-to-date assessment of European attitudes. 16.246 EU citizens were questioned at the end of 1996 - just months before the announcement of the birth of Dolly the cloned sheep, and as concerns about GM food began to surface.

The European Commission report, published in January, argues that - despite the fears over GM food - biotechnology in the broader sense is gaining acceptance. DNA imagery is used to sell cars, high-tech products with health benefits are broadly accepted, and some medical technologies are viewed with less susplcion in Europe than they are in

Europeans are more accepting of genetic testing than their US counterparts, perhaps because of the structure of US health insurance. Last June the Swiss voted in a referendum against a proposed

moratorium on biotechnology

the political geography of biotechnology¹

technologies thrust on them, such as Austria, are more suspicious. Austria was forced to accept EU directives on biotechnology when it joined the EU in 1994. Public resentment was exacerbated by an illegal field release of GM potatoes in the spring of 1996.

'Companies need

to take account of

Today Austria continues to turn away all consignments of GM soya and maize and has yet to see any deliberate GMO releases. More than two-thirds of Austrians, compared with a European average of

growing awareness of the potential better. economic and health benefits of ignorance, too, plays its part. biotechnology and a fear that jobs According to the report, only onewould be lost if biotech companies third of Europeans realise that naturally-grown tomatoes also have "The study does dispel the myth genes. Misinformation is comthat Europeans are fundamentally pounded by mistrust of scientists anti-technology," says Prof Durant. following the BSE (mad cow dis-Countries with legislation and

ease) shock of the mid-1990s. There is also a perception that GM food is being imposed on Europeans by arrogant US companies. "The fact that GM food is a North American product, derived from a North American seed company, which was then shipped as unsegregated material to Europe, had a significant effect on the public debate," says Prof Durant. "Companies need to take account

of the political geography of blotechnology. Monsanto has learnt that to its cost " "Not all companies were sensitive enough, and forgot that sensitivities can be different in different countries," agrees Mads Ovlisen.

chief executive of Novo Nordisk. "You can kill off a technology quite easily if you steamroller on, warns Prof Durant. One way to avoid, this suggests

Nigel Poole, head of regulatory affairs at Zeneca Plant Science, is to foster more informed discussion. That was done in the UK with in 57.5 per cent, say they would not vitro fertilisation (IVF) in the early

"Society has got to find ways of rebuilding trust in the regulatory system and find ways of handling

gh-tech issues," he says. Legislators at national and European level also have a large role to play. The relatively youthful regulatory system in Europe is fragmented, politicised and confused in comparison with America's federal systems. It took 12 years for Europe to reach a consensus on the patenting of biological discoveries.

"I can understand why people(") are uncertain if they do not know what they are putting into their mouths," says Mr Ovlisen. He believes it could be a long battle to reclaim consumer confidence. "Companies have to be prepared to be patient."

Agricultural and food biotechnology is the focal point for current dissension. But the cloning of humans, the production of spare body parts from stem cells and xenotransplantation (the use of animal organs for human transplantation) are issues waiting in the wings.

"There is a need for industry, scientists and government to be thinking ahead to give adequate time for debate and to get social consensus for these technologies." argues Prof Durant. "If instead they lurch into the marketplace. then they're in for trouble."

GERMANY by David Pilling

Bavarian 'buzz' is spreading

The country has been turned from a virtual biotech backwater to one that boasts at least 300 such companies Genome Pharmaceuticals berg, Berlin, and Hanover, ence minister, in 1995. In an among the companies that in the world-renowned Max

ners were Munich. Cologne/

potential exit route for their

"These two events sent a

clear signal that biotech was

Simon Moroney, chief execu-

tive of Morphosys. which

became Germany's first pub-

licly quoted biotech com-

pany this month. (Quiagen.

Several other companies.

investments.

(GPC), one of scores of biotechnology companies sprouting up around Munich, is temporarily housed in a grey, unglamorous warehouse on Lochhamer Strasse. It shares space with an advertising agency, a lithographer, and a storage unit.

The start-up's housing difficulties reflect the boom in Bavarian biotechnology; just a few hundred yards away the biotech incubator at Martinsried is full to burst-

Micromet, a research commanaged to secure offices in the Martinsried incubator. But the company - whose chief scientific officer. Patrick Bäuerle, is one of several prominent German entrepreneurs to be lured back from US exile - is about to outgrow its alloted The buzz in Martinsried,

one of Germany's emerging

biotech clusters, is mirrored

im and down the country. In

Cologne, Düsseldorf, Heidel-

panies with an entrepreneurial zeal not often associated with Germany. "What's happening in German biotech is amazing, says Jofg Pőtzsch, vice-president at Atugen Biotechnol-

scientists are setting up com-

ogy, a German spin-off from a US biotech company. "The number is really exploding, though I know that does not tell you about the quality. But there's a belief that Germany has shifted its attention from steel and coal to That shift has partly been

pany specialising in cancer, spurred by worsening unemployment, particularly among academics. Germans, for years suspicious of biotechnology, have concluded that job creation will come in the new industries, not the old. The public now accepts biotech, at least when applied to human med-

which is listed, is considered a diagnostics company.) Two events have cemented including Artemis, Evotech. The first was the BioRegio competition launched by Jurgen Rüttgers, former sci-

effort to emulate the highmay also seek listings. tech clusters that had devel-Share ownership has oped around such citles as become more fashionable. Roston, San Francisco, Camsays Mr Moroney, since the bridge, and Oxford, he partial privatisation of Deutoffered federal funds to three sche Telekom in 1996. Retail German regions. The wininterest has been maintained

mance of several high-tech Düsseldorf, and the Rhine/ Neckar area around Heidelcompanies As a result Germany has berg. Even the losers, such as Berlin and Hanover, were been transformed from a virstung into action. tual biotech backwater five Second came the establishyears ago to a country that ment in 1997 of the Neuer boasts at least 300 companies. Since 1995 the number Markt, a stock exchange for smaller companies, which of start-ups has roughly dougave venture capitalists a bled each year, and there is

little sign of slowdown. That flurry of corporate creation has been facilitated by an upsurge in venture welcome in Germany," says capitalism. Five years ago only Techno Venture Management (TVM) and Atlas Venture were willing to lend to German biotech.

by the spectacular perfor-

"It was a desert from a financial point of view," recalls Mr Moroney, who had to go to the UK for start-up capital. "But there was an Lion, MediGene, and awful lot of untapped sci-

Planck Institute. Today more than 10 venture companies are endeavouring to turn that science into commercial success.

They have been encouraged by generous federal and state grants. GPC. a functional genom-

ics company, for example, raised DM6.5m in seed financing through BB BioVentures and TVM. That amount was nearly tripled through a BioRegio grant of pharmaceutical companies. DM6m and a so-called silent partnership (a mixture of debt and equity) underwritten by a local bank.

Investors regularly triple their original stake this way. and can even get part of their investment insured.

"This creates huge leverage for venture capitalists," savs Mirko Scherer. vice-president finance at

GPC. "It's amazing." Too amazing, say critics. Some wonder whether companies are being formed that would never get off the ground in a more marketquestion whether Germany has the necessary management experience.

"There's a lot of froth." says one London-based venture capitalist. "We're just waiting for the bubble to burst."

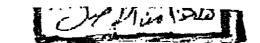
Some Germans share those concerns. "In an environment where there's ample money you can sometimes be led astray," admits Erich Felber, chief executive at

Micromet. But more believe the fears are overdone. As far as management is concerned, biotech has been adept at attracting German entrepreneurs from abroad and from

Helmut Schühsler, managing partner of TVM. believes Germany has struck a credible balance between kickstarting a biotech industry and allowing market mecha-

nisms to operate. Rather than trying to pick winners, the government channels funds through professional lenders since official finance is only granted to companies that have raised money in the private

"They used us [venture capitalists) to direct their funding," he says. "That was Sequenom, are mentioned as ence," he says, particularly driven system. They also a very clever thing to do."



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Initiatives create a new climate

The socialist government is taking steps to loosen ties on state scientists, allowing them to take part in start-up enterprises

There is a widely held view ahead of us as a result of among French scientists, political will," says Pascal used to jobs for life in government research institutes. that science should stay in corrupting influences of cap-

France has world-class life science research, but culdiscourage scientists from and a FFr100m seed fund to setting up companies, Government investment initiatives have created a new entrepreneurial climate, but venture capitalists are finding it hard to recoup their investments.

Even when scientists catch the capitalist bug they are forbidden from "moonlighting" for start-up companies. Those who quit academia say goodbye to job security and comfortable pensions. Only 40 or so research scientists, from a total of 25,000, make the jump to the private sector

Gerard Soula, chief executive of drug-delivery company Flamel, agrees that France's centralised science policy has suffocated innovation. "Money is not seen as a plus. We see ourselves as more intellectual."

Many of France's biotech companies have been founded by researchers who have spent time in the US. "They come back, and say 'why not me'?" says venture capitalist Laurent Ganem, a pariner with Apax.

Encouraged by French biotech pioneers such as Genset and Transgène, a new generation of researchers is rejecting the anti-enterprise man-

"What freedom do you have when you must do what the government tells you," asks Thierry Jean, who created drug-discovery company Cerep in 1989 after a three-year stint at the US National Institutes of

Things are changing. Germany's spectacular efforts to promote the biotech sector have shocked France into action. "Five years ago we were almost laughing at Germany. In two years they are

Brandys, chief executive of

genomics company Genset. Last year, finance minister its ivory tower, free from the Dominique Strauss-Kahn announced a package of measures to kickstart commercial science, including a FFr600m state investment in tural and structural barriers local venture capital funds, compensate for a distinct lack of business angels.

Prompted by the need to create jobs, the socialist government has agreed to relax the terms of employment for scientists. A package of legislation to promote biotech, awaiting a vote in the National Assembly, will allow government scientists to participate financially in start-ups, without giving up their jobs.

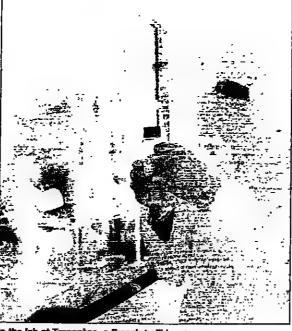
The legislation will also encourage institutes to establish technology transfer units, to circumvent a bureaucratic, centralised commercialisation system that breaks the link between scientists and managers.

To support the spin-outs the ministry of research has created 12 pre-bloincubator centres, which offer accommodation for two years to

There is only one biotech science park in France - the Paris, which is home to Genset. Four more are planned. Strasbourg and Lille are almost certain to be chosen. and Montpellier is a strong possibility, according to Jean Alexis Grimand, deputy director at the research min-

stock options fell victim to options, which often form more different. the bulk of a senior executive's remuneration in US and UK biotech companies. attract income tax and social

"This is totally inappropriate for an industry that is trying to attract key individuals," savs Mr Brandvs. Nevertheless, civil servants believe it is only a



matter of time before the entrepreneurs get their way. Venture capitalists have raised record funds for life sciences in the new climate, In 1996 about FFr1.5bn was invested in French biotech by venture funds. Apax is in the process of closing a FFr2bn fund. Sofinnova, the oldest of France's venture capital companies has just raised FFr790m. Last year Aurega Partners raised

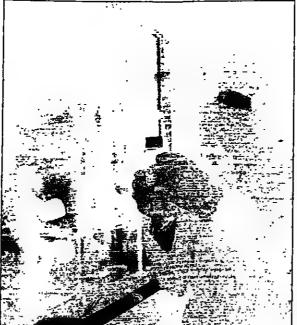
"Now if you need a lot of money it's possible in France. says Sofinnova partner Denis Lucquin. Alain Gilbert, the chief

executive of Thallis, a company that is raising FFr90m to develop drugs from marine algae, says there is more money available today than ever before. "This time we are not looking to the UK for money," he says.

What France, like most continental countries, lacks is executives with a track-re Genopole at Evry south of cord of taking companies from idea to product. "There are lots of people with ideas. Scientists of amazing quality are jumping into the boat. But management skills are another story. We don't have the serial entrepreneurs yet," says Mr Ganem.

Start-ups are going to need However, proposals that all the private funds they would have cut the tax on can get, because while venture capitalists are flush anti-fat cat santiment in the with money, the scene at the National Assembly. Stock stock exchange could not be The Nouveau Marché.

launched in 1996 as a source of public money for highdry. Cerep, which tapped the Marché to grow from a small fee-for service operation into a transatiantic player with its own drug development programme is now trading at



Jeremy Curnock Cook, pany that holds a stake in Biovector, believes pioneer-

trailblazers Genset and Transgène. Gene delivery company Biovector Therapeutics was forced to abandon an IPO at the end of February.

Rothschilds' investment adviser to BIL, the Jerseybased venture capital coming French biotech companies suffer from being first. in an untested market. "The continental path has only a few footprints on it," he says. But one must remember that it wasn't straightforward in the UK six years

FINANCE by Nuala Moran

A year best forgotten

Stock markets have been buoyant, but small-cap biotech companies have felt a cool wind in their search for funding

Last year was a horrible one ing Group, of the Netherfor the biotechnology indus-Europe. Against rising markets, the value of quoted companies fell sharply and many institutional investors pulled out. The change in of European companies at all

stages of development. "Fund managers who had an interest in the sector clearly had cause to regret it in the past 12 months, particularly when indices in general were on the way up," says Jeremy Curnock Cook, director of the bioscience unit of Rothschild Asset Management.

"Fund managers who were in biotech for the short term departed some time ago; those in for the longer term were not comfortable but took the view the market is cyclical, so staying in is the

best strategy." Three companies - Oxford GlycoSciences, Oxford Asymmetry, and Quadrant Healthcare - floated in London in the early part of 1998. Since then there have been no IPOs in London, though Bioscience Innovation and ReGen Therapeutics did slip on to Ofex, the unregulated

There was limited activity

lands, listed on the pan-European Easdaq market and Antisoma, based in London, followed suit. Denmark and many Scandi-

while UK investors are off biotechnology, there is still interest in mainland Europe, with retail investors retaining their appetite. "The downturn has yet to sweep through Germany and France," notes Mr Curnock Cook. "In Europe we see a market that is still learning the ropes, and is yet to go through the cycles seen in the US and the UK."

The indications are that,

Glyn Edwards, chief executive of Antisoma, says the company had been planning another private round of financing. "But when we talked to investors in Europe we were encouraged to go to Easdaq. It is a difficult time to raise money, however you do it - the non-specialists have pulled out."

Similarly, the US company Phytera - based in Worcester, Massachusetts, with subsidiaries in the UK and Denmark - chose to go public last month via a dual listing on Easdaq and the Copenhagen exchange. The com-

on Nasdaq and Easdaq. Malcolm Morville, chief business model than the one executive, says: "Nasdaq has been a difficult market for small cap stocks, both biotech and non-biotech, with no IPOs in the past six to nine months. We have two wholly-owned subsidiaries in

navian investors, so it makes sense to list in Copenhagen." The German company Morphosys floated on the Neuer Markt in Frankfurt this month, but the picture in 1999 remains mixed, with Biovector Therapeutics pulling out of its flotation on the Nouveau Marché in Paris. planned for February 32.

The end of last year saw some heavily-discounted rights issues by companies listed in London. It says much about the state of the sector that PPL Therapeutics, the company associated with the most famous development in the history of biotechnology, the cloning of Dolly the sheep, was forced to offer a discount of more than 30 per cent to raise £20m last November. In the same month Therapeutic

Antibodies raised £7.5m at a 52 per cent discount. The run of bad news in the quoted sector is having an effect on the unquoted companies. Chief executives of a new \$400m fund. start-up and early-stage company had previously said it panies all make the same wanted to reflect the comment - there is money geographical spread of available if you have a good

that promised iam tomorrow was registered. They are interested in companies with platform technologies that can be licensed or used to attract partners, collaborative deals that provide staged payments and the promise of a royalty stream. and the spice of an in-house portfolio with blue sky

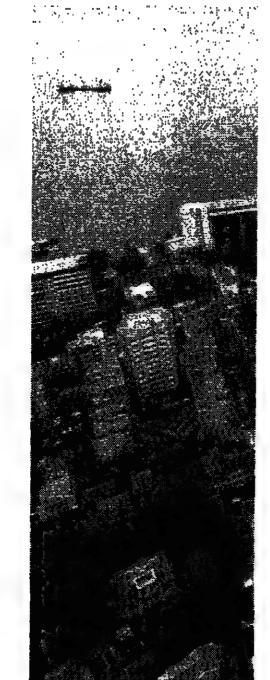
The sad state of the quoted companies and paucity of IPOs is not damping the companies. But it is making venture capitalists more reflective, according to Antony Ross of 3i, the leading venture capital investor in biotechnology. "It is forcing tive on start-ups and the exit valuation is likely to be

Chris Coggill, head of Generics Asset Management, agrees. "The number of early-stage opportunities is going down and there are tors that the time to realisa

tion is getting longer. Despite this, Atlas Venture announced at the end of February that it was launching

ments we saw in 1998 is to make biotechnology less

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Through window of opportunity

capital have discouraged the formation of blotechnology companies in Scandinavia, but one that got under the wire is NeuroSearch, a specialist in central nervous system diseases. Its portfolio reads like a cure for every modern ill, with potential treatments for anxiety, depression, drug addiction, stroke, Alzheimer's, and

Parkinson's disease. "We were very lucky to beat the system," says Asger Aamund, chairman and co-founder of the company, which is based in Glostrup, Denmark. "Ten years ago when we founded NeuroSearch, the Danish banks, inspired by what was happening on the US scene, went into venture capital. Unfortunately they fell flat on their faces and it was a disaster, but we took advantage of this window of

opportunity."
The company was established in May 1989 with DKr29.7m in funding. It subsequently raised DKr86m in a series of private funding rounds before going public on the Copenhagen exchange in 1996, raising DKr238m. In April 1998 a rights issue raised a further DKr259m, giving NeuroSearch a current total of \$50m in cash and the luxury of knowing it is sitting

on enough money to see it through to profitability. Strategically, NeuroSearch has taken a middle road to balancing risks and returns. It has a policy of developing compounds alone until mid-way through the second stage of clinical trials.

if the data is good enough partners will then be prepared to pay more in upfront payments, nilestones, and royalties. It also gives NeuroSearch control over the pace and direction of the development

programme. Similarly, the company has kept overheads down by outsourcing clinical trials but retained control by having an in-house team to manage them. Nevertheless, overheads have risen sharply in the past three years as more projects moved into

As is typical for biotechnology companies, revenue, which comes mostly from payments from Income in the first six months of 1998 was DKr49.4m, but the company did not expect to receive much more in the second

Several collaborations are in place. NeuroSearch signed its first licensing agreement, with Warner Lambert, in 1990. Since then it has struck partnerships with Pfizer, Bristol-Myers Squibb, Shire Pharmaceuticals, Pharmacia & Upjohn, and Meiji Seika Kaisha of Japan. An agreement with Glaxo Wellcome, in which the two were developing treatments for asthma and stroke, was

the pre-clinical stage. NeuroSearch is careful to exclude rights to the Scandinavian and Baltic markets from its licensing deals. While this should

ended in September 1997 at

transiate into superior returns in home markets, it also allows the company gradually to increase its capabilities in drug development, manufacturing and marketing without

Jorgen Buus Lassen president and chief executive, said that eight pharmaceutical companies coressed an (unsolicited) interest in its anti-depress NS2389 while it was in Phase 1 safety trials in the UK. At the beginning of February, NeuroSearch received permission to move into a Phase IIa efficacy trial. "Once the trial is running

we will send out information to the companies that approached us and before the next study take on a partner," Mr Buus Lassen says. Studies show that existing anti-depressants, showing an effect after one week against four to six weeks for Prozac and Paxil. This would significantly reduce the risk of suicide in patients requiring treatment

for depression. While collaborative deals to date have achieved royalty rates in single figures, Mr Buus Lassen says he hopes to secure more than 10 per cent for

approached by the US National institute on Drug Abuse (Nida) proposing a joint development project for NS2359, which Nida had singled out as a potential treatment for cocaine addiction. The next milestone in the

development of Neuro-Search should be its lead compound brasofensine, for the treatment of Parkinson's disease, moving into Phase III clinical triels. NeuroSearch had previously said it expected Phase III to begin in 1999 but Mr Buus Lassen says the Phase II trials are currently being analysed.

THE UK by Virginia Marsh

Still ahead of the game

There has been evaporation of investor confidence, but the sector continues to expand at a blistering pace

From the sorry state of the quoted UK biotechnology sector, where company valuafter the British Biotech affair - in which managers were accused of exaggerating the efficacy of the company's lead product - it would be easy to assume the

industry was in trouble. In fact, the sector - the second-largest in the world after the US - is still expanding at a blistering pace. A report published this month by the BioIndustry Association says there are more than 460 companies in the sector - only about 40 are stock market listed and the industry employs an estimated 35,000 to 40,000, a number that has been increasing at 20 per cent a year over the past four

The UK sector continues to grow exponentially unlike in the US," says John Sime, BIA chief executive. We're still seeing something like one new company being formed a week."

Rob Zegelaar of Atlas Venture, the Dutch venture capital group, says the UK industry has a critical mass and infrastructure that continental Europe still lacks.

"It's both easier to make and manage biotech investments in the UK." he says. "There is excellent science. and you have serial entrealso lawyers, accountants and City [of London] analysts who know the sector. raise cash last summer by managers who understand This makes a big difference." The industry remains con-

centrated in what Schroder Ventures, an active investor in the sector, describes as the "golden triangle" of Oxford, Cambridge, and London, as well as in central Scotland. But other regional clusters of activity are emerging around university cities such as Manchester and York, and in the south-west around Bristol, Bath, and Cardiff.

Ron James, chief executive of PPI. Therapeutics, the Edinburgh-based company famous for cloning Dolly the sheep, says universities are increasingly aware of the commercial potential of their research but that there is still some way to go.

"They often have an inflated view of the value of their early stage science," he gays. "Turning science into a commercial product can cost tens of millions of nounds." Despite the enthusiasm at the grass roots, the evaporation in investor confidence in the quoted sector has created something of a watershed for the industry.

One of the most tangible results of the problems has been a far harder environment for raising cash. Even companies that have

ised have been hit. PPL, for example, was only able to offering a 33 per cent discount. The £20m offering was priced at 80p compared with 450p at flotation in 1996 even though the technology behind Dolly is three years closer to delivering a com-

mercial product. Dr James, who sits on the but they don't always adapt boards of two smaller biowell to working at smaller technology companies, says the non-quoted sector is also facing financial constraints. There are relatively few dedicated biotech funds, and investors have been switching investments into other areas of technology such as media and IT, sectors that offer quicker returns.

Among other things, the biotech industry has not lived up to earlier hopes that it would be able to develop drugs significantly more quickly than the big pharms ceutical companies.

"These days, to attract funding, companies need to be further into trials and have more substantial, wider and bigger portfolios," says Cathrin Petty of Schroder Ventures, predicting this will lead to more consolida-

Ms Petty says investors are also placing more emphasis on the strength of the management team. "It's a question of matu-

companies get products to markets, there will be more the process because they have been through it before. The UK sector has benefited from ex-pats returning from the US biotech sector, but there aren't enough. Former big pharma employees are on a greater number of also coming into the sector

Consolidation, meanwhile, is already under way. Shield Diagnostics for example is merging with Axis Biochemicals of Norway, Together, the two former competitors will have a strong global position in homocysteine, a new test for heart disease.

Consolidation is also taking place among the big pharmaceutical companies. This is stopping them in the short-term from licensing from biotech companies as agressively as they used to, says Mr Zegelaar.

A longer-term danger is that the bigger companies emerging will only be interested in drugs with potentially large markets capable of making material contributake a treatment from distions to their enlarged busicovery to regulatory

"The question then is who will license biotech companies for the drugs with smaller markets," says Dr

preneurs here. There are delivered what they prom- rity." she says. "As more the merged companies will and development." With healthcare budgets around the world under

pressure, there is also the issue of payment at the customer end. Aided by powerful new tools such as genomics, companies are working potential treatments than

"It's not yet a pressing issue," says Dr Sime. "But from 2000 onwards there will be 20 to 40 new drug candidates from UK biotech companies in the system each year. Going forward it is not clear whether the amount will increase, flatten out, or even fall. It depends on who is going to pay for all these

ers, he believes the product launches will change the industry's image, "The sec tor will go from being one based on hope to one that has had tangible success." After all, it was only recently that Chiroscience. with its Chirocaine anaes thetic, became the first UK biotechnology company to

At the same time, like oth-

approval. Dr Sime says the sector is already benefiting from a far more positive attitude from government since Labour



Poste Script

A regular column written by George Poste, chief science and technology officer at SmithKline Beacham.

Antibiotic Armageddon

Nature's own processes of genetic modification drive the deadly emergence of antibiotic-resistant bacteria

Antibiotics rank among the most important medical advances of the 20th century. Each year they say countless lives and spare millions from disabling infections. But the protection provided by these drugs is

under siege. antibiotics is increasing rapidly, threatening to recreate the pre-antibiotic era when injections killed and maimed routinely. Backerial resistence to penicilian was predicted, and found, within two years of

launching this pioneer antibiotic in the 1940s. Today's threat resides in the dramatic amplifications of the problem. Resistance is now found in many different kinds of dangerous bacteria, and the emergence of "superbugs" that resis killing by all antibiotics

poses a formidable risk. The culprit in this story is genetic modification. This is modification that has recently been capturing headlines about genetically-modified food. Instead, it involves the natural process of relentles ubiquitous, genetic change that drives evolution and

Bacteria are the oldest and most abundant, life form on Earth. They exist in every geographic niche and display a remarkable ability to adapt to each new environment shaped by human activities. For every human generation, more then 100,000 bacterial enerations will occur ezne period.

Such an expanded pedigres aliows endissa patterns of genetic variation to be generated. Much of this veristion will be of little consecuence, but some changes will render bacteria able to resist chamical asault, whether from man-made antibiotics or from within their natural

givironment Today's antibiotics are chemicals produced by bacteria and fungi. In nature, these molecules are used as chemical weapons by micro-organisms to protect their territory against invasion by other bacterial interlopers and invaders.

These "bug wars" have likely existed for millions of years, allowing bacteria to hone their genetic machinery for rapid change in order to adapt and to survive ever-changing chemical

In the 50 years since penicilin became available, bacteria have relentlessly modified their genetic make-up to create descendants with increased resistance to particular antihiotics. In turn, the need to use even more powerful antibiotics to overcome these forms of bacterial maistance fuels II vicious cycle of genetic selection in which the descendants of these already resistant ancestors now accume resistance to additional antiblotics.

In addition to passing stance to their progeny. some bacteria transfer sistance genes to completely unrelated banterin. Bacteria use highly-ingenious ways to defeat antibiotics, including: blocking the ability of antibiotics to get into the

 pumping out any drug that enters so fast it has no

'Society is ill-prepared for this window of vulnerability!

time to work by breaking down the antibiotic before it can act; and by myriad genetic changes that eliminate the targets against which the

Reassertion of human inventiveness to find new drugs that kill bacteria in entirely different ways to current antibiotics is now an urgent public health priority This quest is facilitated by new genetic technologies that enable the becterial genes involved in causing ese to be decionered and to select antibiotics that block their action.

Yet even with outimum

progress, it will take seven to 10 years and an R&D investment of £150m to \$200m to bring a single new antibiotic to market. Infections caused by resistant becteria will continue to escalate during this hiatus before any new antibiotics become ava Society is ill-prepared, medically and emotionally, for this window of vulnerability in the early



The initial success of intibiotics created a faise comfort that the conquest of bacterial infections was at hand. This premature conclusion generated a dangerous complacency that has allowed antibiotic esistance to escalate alarmingly, driven by a variety of factors, including: Inappropriate and excessive use of antibiotics by doctors:

• the feeding of antibiotics to livestock to promote... growth;

the relexation of infection

control standards in · · · rospitals reduced government expenditure on the surveillance and monitoring

of infections; and a retreat by the pharmaceutical industry from . antibiotic research to shift its R&D focus to other

As emphasised last year in the impressive report on entibiotic resistance from the House of Lards (the UK parliament's unelected upper house), urgent actions are needed to radress these. shortcomings, to restore ... discipline to antibiotic prescribing, to improve the detection and tracking of resistant infections, to mandate the treatment of carriers, and to place greater emphasis on infactious es in medical training

The accelerating pace of istant infections portende the end of the inaugural era of antibiotic therapy. As research seeks to rectore our dominance over bacteris by discovering the next generation of antibiotics, must recognise the inevitability of further genetic modification by becteria that

will predictably thwart this next generation of drugs. Every future antibiotic will follow the same cycle of success and failure that has overtaken the first wave of pioneering antibiotics. For each new antibiotic discovered in the year ahead we must immedia begin the search for its

By acknowledging the remarkable genetic pla of bacteria as a crucial lement in strategies to control infectious dise we wili go a long way to ensuring that society need never again be exposed to

Consolidation

Continued from Page 1

output with only one-third of its R&D resources. "US companies have

offered a different model...almost an anti-merger strategy," says Donald Meltzer, head of global healthcare at Credit Suiss First Boston. On several occasions Merck, the most consistently successful company over the past two decades, has lost its number one slot to newlymerged companies, only to re-establish its lead through organic growth. In the words of one executive. "bigger companies simply have a

sultants supports that view. While mergers bring short-term cost-savings, there is scant evidence they increase productivity or market share in the longer term. The assets of a drug company are its employees; jamming two cultures together can be enormously distracting and demotivating.

The potential pitfalls of mergers are well known. But few in the industry doubt that consolidation will continue, particularly in Europe where many smaller companies do not appear to have a

bigger beast to feed". strong independent fucure. Research by several con- And it would only take a downturn in the US market which has buoyed up Amen can drugs groups, to bring: the prospect of consolidation across the Atlantic

One thing is clear. What would really animate the industry is a deal between two strong companies merger undertaken not primarily for defensive reasons; but rather to gain a strategic jump on the opposition if a deal of that nature were put led off, the recent round of consolidation would come to seem like merely a warm neg

FINANCIAL TIMES SURVEYS GENERAL INFORMATION

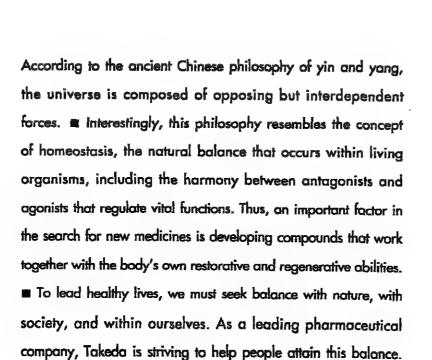
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SURVEYS PROGRAMME AND INDEX

Surveys are published most days of the week with the FT. Topics include financial markets, global industries, business management and developed and emerging countries. A list of the following week's surveys is published every Monday in the Guide to the Week Ahead on the back page of Section Two of the Financial Times.

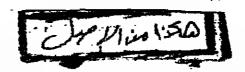
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PLACE LIKE THIS, THERE ARE A FEW THINGS YOU COULD USE

V

) Z NFORMATION MANAGEME

commerce

Part Sever

Electronic

FINANCIAL TIMES

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Next week

Nothing else matters until your basic needs are met. However, it's easy to overlook obvious answers to your anformation technology problems. Our objectivity can help. It already has for four out of five of the world's kugest companies. We never stop asking what do you need most? People and software for business applications.

Huig Mortin

The human factor

COMINGINGALLE What do you need most?"

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Welcome to Mastering INFORMATION MANAGEMENT

This is the seventh part of our weekly series almed at helping FT readers mapter the management of information and of the technology that captures, stores, distributes and processes it inside and out-

10 mm 2

So far we have looked at the changing information and competitive environment, the use of it inside the business and along the supply chain, the impact of it on organisational structures, and knowledge management (for full contents see the latest synopsis on page 15),

This week we tackle another much-discussed topic – the way in which commerce is moving rapidly to a digital platform. As all the articles here make clear, e-commerce raises issues that pervade all functions and departments within a company, but we shart with the focus firmly on marketing and the ous-

On this page Sirkka Jarvenpea and Stefano Grazieli imply that e-commerce will come to nothing if internet retailers are unable to getn customers' confidence. Such trust is always fragile but there are particular concerns to be addressed in cyberspace. John Waish (page 4) gursues the theme of customer satisfaction on the internet with his discussion of "clicksfreem data". Those companies that have made minimal investments in their websites should head his conclusion that in a few years uncustomised communications and offerings will look as outmoded as Henry Ford's "any colour you like as long as it's black". On pages 6-7 Nirmsiya Kumar addresses the worry shared by many established companies that the internet has the potential to disrupt as well as transform distribution channels.

For a more macro-economic perapective turn to the article on pages 8-10 by Andrew Whinston, Menoj Perameswaran and Jan Stallaert. These three authors sneive the way digital networks are making possible the sonomists' dream of "markets for everything", and look at how some companies are taking advantage. The same strategic flavour characterises the last two articles this week. Robert Plant and Lesile Willcooks (pages 10-12) describe how companies are developing coherent and effective ecompanies and competitors. is professor of management information systems at the graduate school of business of the University of Texas at Austin. His main research interpets are fraud detection and human error in using IT.

There is no correspondence due to space restrictions this week — but a bottle of pink champagne is on offer for the best letter published in subsequent parts of the series, in Part 12 you will be invited to test your knowledge and skill with a competition Have you Mastered information Management? Please note that our website, www.fimastering.com contains summaries of each week's material, plus additional facilities.

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American tourists visiting a smalf-town potlary shop in rural Italy. When they introduce themselves as coming from Illinois, the chierly shopkoeper replies: "Ah, Illinois! We sell there. And in Florida, Colbredo, Alaska..." The commercial fusies as the list of markets grows longer and lastgor but the message is clear; an internet presence allows retailors to reach potentially millions of commers worldwide.

Grenter choice, hence prices and the creation of commerce. Yet unless such observate for the stars of commerce. Yet unless such observate for the stars of commerce of the quality thay expect, internet sheet in the hold in track that the wide of the quality thay expect, internet sheet interpring will not reach its full potential. Indeed it reports widesproad distrust among consumers about interpring will not potential. This (as we shall see) is partify the to the special characteristics of the muchtum commerce to the special characteristics of the muchtum commerce to treatitional retail formats. Lower entry sand exit costs have encouraged many "Ty-by-night" operators who have established sizes and marketed thair weres fraudulently to an unwary public.

Because of the nature of the medium, internet merchants have a much harder time when it comes to fostering consumer trust than their brick-and-mortar counterparts. In most cultures, consumers grant their trust to business parties that have a close physical presence buildings, facilities and people to talk to. On the internet, these familiar elements are simply not there.

Decades of academic research have shown that trust is most readily established when both parties share similar backgrounds, are governed by the same social and legal systems, and expect to interact with each other in future. The seller's reputation, the size of his business, and the level of customisation in product and service also engender trust.

Take customisation, for instance. Customisation implies willingness on the part of the merchant to commit resources, effort, and attention to a specific customer relationship. As a precondition, customisation requires some prior knowledge of the customers including his or her identity. Yet many customers avoid sites that ask them to identify themselves too closely. And to put it simply, one cannot truly personalise for an anonymous buyer. As we consider the other factors that fester consumer trust, we find that it does not get any ensier for the internet morchant. Store size and reputation can be hard to convey on the internet and are relatively easy to forge. The information on many websites about their legal (and physical) location, consumer legal protection and remedies is often incomplete or ambiguous.

From the consumer's standpoint, trust is the antidote to perceived risk in a business transaction.
Internet consumers will inevitably wonder whether
a morchant will deliver the goods that they have
paid for. If goods are delivered, will they be the
ones that they have ordered? Can they be returned?
To whom? At what cost? The perceived risk
depends on the likelihood of default by the other
party and on the satent of the loss deriving from
that default.
Internet merchants need to elicit consumer trust
when the level of perceived risk involved in a transaction is high. This is not always so. In the case of
the purchase of books over the internet, for
instance, consumers are likely to perceive relativeby little risk when the transaction is unlikely to

Security and privacy

considerations can hamper internet annumers who have ball up trust in an internet assummers, between the converse, found that communer who have ball up trust in an internet merchant will hippart anchorage that communers who positively biprart also that communers who positively biprart also that communers who positively priest to buy, and pervetue the sellar as frustwerthy, will buy.

Navertheless, internet inservinnts need to address issues such a fear of privacy investion and always of continue the pervetue the stepping medium. Earlier this year, one of the present their eredit considering the internet as a shapping medium.

Earlier this year, one of the present authors received an consil from a student residing in grashing in the internet, and I was cortain the transaction was encrypted, but I discovered hat week that my order abuiltselon was likely adde-tracked. [A well-known internet bookstore] did not have any record of my order, and within a few days, sameone had purchased a storeo system in the United Arab surchased a storeo system in the United Arab Emirates using my Visa card."

Technological progress, legal remedies, and user and web servers (the information bubs operated by infornet merchants) can now be automatically energypied, so that no unauthorised person can essent to viruses and other kinds of electronic attack. Technologies such as frewells and digital cortificates which control and sudit access to information about customers contained in a web server have become more robust.

Misrepresentation and fraud

While tampering and sevesdropping are being tackied, the problem retueins that it will always be possible to have a perfectly secure transaction with a
crook. As a New Yorker cartoon once put it, "On
the internet robody knows that you are a dog."
There are signs that the risk of e-fraud is increasing with the growth of internet commorce. Internet
fraud Watch, a site sponsored by a consumer
organisation with ties to the US government,
receives an average of 100 fraud reports per month,
up 200 per cent with respect to the same time last
your. As the internet continues to be cluttered by
small and start-up companies, concerns over merchunts' reliability and reputation are increasingly
in the misds of commones.

Some frauds are old, some new. The old risks
include pyramid schemes, phony initial public
offerings, "pump and dumpy" price manipulations of
securities, scholarship scaues, deceptive travel programmes, false weight-loss claims, questionable
business opportunities, work-at-home achemics,
prizes and sweepstakes, and credit card offers.
Those frauds are the electronic equivalents of ruses
that lave been practised for years by telemarksters
and junk-mail swindlers.

Annong the old scams, the pyramid scheme is one
of the better known. Pyramid schemes are based on
the idea of generating an ever-expanding base of
recruits, who are in turn requested to find new
recruits, who are in turn requested to find new
recruits, who are in turn requested to find new
recruits, who are in turn requested to find new
recruits, who are in turn requested to find new
rever, pyramid schemes svenitually collapse, causing
most of those involved to lose money.

GLOSSARY

application: a piece of software designed to meet a specific purpose.

bandwidth: A network's capacity to carry data.
browser: Software such as Netscape Navigator and

Internet Explorer that enables users to explore the workwide web.

bug: An error in a computer program that prevents it from working property.

business process re-engineering: An approach to corporate change which energed in the 1930s; it involves analysing companies' core processes and reassembling them in a more efficient way, without functional divides.

chief information officer (GIO): The senior executive in a company responsible for information management and for delivering it services.

client/servor architecture: A network in which componer processing is distributed among many individual PCs (clients) and a more powerful, central computer (server).

Clients can strue files and retrieve data stored on the server.

stored on the server. collaborative software: Groupware, such as

computer-elided design (CAD): Refors to any computer-enabled method of design; also called computer-assisted design.

database: A software package for storing data.

data-mining: The process of discovering previously unknown information from the data in data

warehouses.

data warehouses: A place — virtual or physical — in which business information is gathered.

e-commerce: business transactions conducted electronically, including over the internet, enterprise recourse planwing: An integrated system of operation applications combining logistics, production, distribution, contract and order management, sales forecasting, and financial and HR management.

electronic data interchange (EDI): Transmission of documents via any electronic medium using a set of standard forms, messages

e-mail. A system that enables computer users to send messages to one another's machines; ideally it should allow them to attach files and find other users' mail addresses.

extranet: An extended intranet, based on internet-standard protocots, which allows access via the internet by people outside the enterprise.

groupware: Software that facilitates

communication, co-ordination and cottaboration among people.

undware: The magnetic, mechanical and electrical components of a computer and its peripheral devices. prompetition: Aggressive form of competition in which companies constantly try to redefine the competences needed for success in a

particular market.

Internet: The global computer network.

Intranet: A private natwork within an organisation, often protected from internet traffic by a "trewell" (software that controls access from

the outside). mation systems (16) strategy: The identification and prioritisation of systems of applications for development.

mation technology (IT): The hardware and software that is used to process information.

the apparent gap between what companies apend on technology and the increase — If erry — in their business performance. whedge management (KM): A term with

many meanings; it includes deliberate efforts to maximise an organisation's performance through creating, sharing and leveraging knowledge and experience from internal and cy system: An old database or other application, probably superseded but still

local area network (Lan): A network of computers in a relatively small

geographical area.

Lotus Notes: A proprietary software that sllows
users to share many different types of
unstructured and semi-structured information. Lotus is owned by IBM.

Iframe: The central processing unit of a large computer, usually receiving input from a

mumber of terminals.

merketspace: The "marketplace" in e-commerce.

mincoprocessors: Complex electronic circuits that
comprise a computer's central information
processing unit.

mincomputer (or "departmental computer"):
A type of computer that appeared in the early
1970s; a stage in the evolution from
mainframes to PCs

multimedia: A combination of sound, graphics,
animation and video used to display
information on a computer.

ordina: Having a computer and modelin, or
accessible by someone with such tools,
operating system: A program that marshals the
internal operations of the computeritient,
altocating memory to work files, for instance.
peradigm shift: Term used to describe a complete
re-thinking of the business or economic
outlook, caused by a startling intellectual or
technological discontinuity.

PC: It once meant "not IBM", then "not Macintosh"
— now it refers to any personal computer.
It defines the applications and instructions
that enable a computer to perform a
particular task.

protocel: The language that one computer uses to
tak to another.

The amoreme that are run on a

The human factor

Strategic uses of IT

Why large organizations are at a sustained a disadrantage Aligning and repositioning IT in the business

Strategit: dimensions of IT outsourcing
 Executive perspectives on information use

Framing the business case for it

Week nine March 29

software: The programs that are run on a computer system,

value chain: Concept widely associated with the management thinker Michael Porter which focuses on a company's internal processes and the interactions between different elements of the organisation. Analysis of it shows how and where value is added.

virus: A piece of unauthorised computer code within a host program; it can be transmitted to other computers via disks and networks.

There are many types of virus, some harmful, some not.

wide area network (Wan): A network of computers over a wide geographical area.

worldwide web: an application which runs on the internet; it provides a standard way of publishing and accessing information.

innovation and the isaming

Week ten April 5

Why organisational have to knryot
 How leading internet companies innovate

organisation

Conclusion

Week twelve April 19

Guru/practitioner perspectives

Week eleven April 12

Gurus of the Information Age
 The CEO perspective

The CKO perspective

productivity paradox: A term used to describe INFORMATION MANAGEMENT

Your guide to Mastering

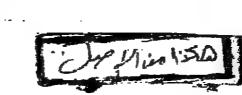
Mastering INFORMATION MANAGEMENT 15

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company performance Improving Week two Feb 8 12-part series Week one Feb 1 Why its time to focus on the I in IT
 Linking IT to business performance
 Why every business is an information business

Managing IT in the business Table project. (Apppl) T.B. — The extending to project the continuous of the continu The smarter supply chain Competing with information Knowledge management forms New organisational Week Two March 1 Weak four Feb 22 Week three Feb 15 Week eight March 22 Week six March 8 - "E-lancing" and individualisation
- Five principles for mesting the most of IT
- Combining corporate power with entreprensural aguity
- The combining corporate power with entreprensural aguity Wirtusi offices and networks
 Regulatory Issues for the
global manager
 Managing use, not technology Benefit-orionisted approaches to KN
 The role of information in KM
 Chief knowledge officers – what is their role? The defeats art of managing
IT professionals
Getting the CED/CIO
relationship right Strategic implications of the new information economics
 Managing information in the marketspace
 Datamining Case sludies: comporing with networks in the demand citalin
 IT and early supplier involvement Improving the effectiveness of the IT function is standardised global iS worth the bother?
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 Implementing IT rapidly in the supply chain Become a knowing organisation
 How people react to IT enabled change Eastern and wastern styles of Information management
 Core information system capabilities Historical perspective: from Industrial age to information age
 Case study: Land Rover's Frestander Competitive intelligence and information menagement — the bost practices than bost practices.

Managing attention — how to get listened to Competing with IT infrastructure



14 Mastering INFORMATION MANAGEMENT

Confinent from page 12

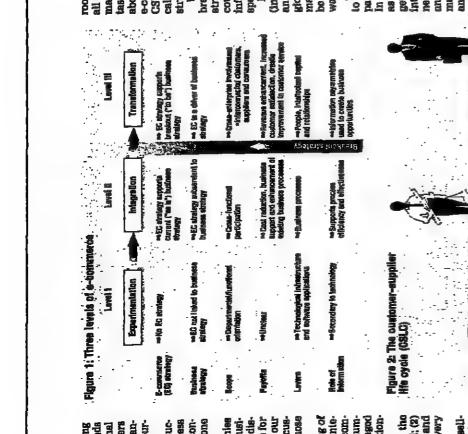
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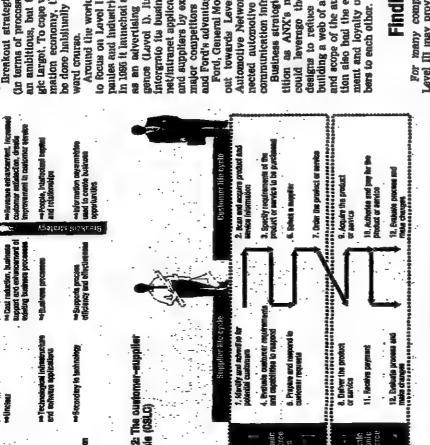
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further extended its services by providing facilities to handle payments.

In essence, FedEx is evolving from its business process efficiency perspective (Level II) towards a new internet logistics and transaction management portal for its customers (Level III). It is towards its strong brand and logistics capabilities to achieve naw levels of information asymmetries by closely linking its core competences in virtual and physical value chain activities.

For many compenies an immediate jump to Lavel III may prove difficult. For some, a radical breakout strategy is too much, too fast in terms of chauge. Clearly, a company must first decide if it is at Level I, il or ill. To belp with this decision, it should ask the following questions:

Does the compeny have the technological infrances processes? Yeses to lices questions would suggest that the compeny laving a travel in business processes? Yeses to lices questions would suggest that the compeny have an e-commerce strategy and does it support the business processes? Hore yeses would indicate a company at Level II.

Does the company have an e-commerce strategy and does it support the business processes? Hore within its automated business processes? Hore yeses would indicate a company at Level II.

The next set of questions is germane to compens within its automated business processes? Hore yeses would indicate a company at Level II.

The next set of questions is germane to compens the company have customer information it is not using to build market share and increase income at Level III.

Does the company have customer information it is not using to build market share and increase to information it is not using the customer information it is not using to field prothers and customer strategic customer information with competitors with a higher degree of quality and customer strategic focus on building relationships, keveloping improve efficiency and increase quality; it is strategic focus on building relationships and exploiting intellectual capital and customing way will sourced as the zist century gets under way will solve on the zist century gets under exploiting intellectual capital to create opportunities. The companies is you do not move to the rewain in business? While some market leaders such as Fedkx may incrementally evolve to Lavel III, most companies will not get there without major intervention on the part of senior management. If they are to achieve drastic increases in revenue and customer satisfaction, companies must capitalise on the intellectual capital in their employees and external relationships. Lovel III business leaders will need to disrupt the status quo by proposing Level III "breakout strategies". However, breakout is only possible if information asymmetries can be exploited and technological infrastructure to change course. How can senfor executives position themselves to take the lead? By recognising that e-commerce das changed the ruites. Effective leadership demands that senfor executives position themselves for take the lead? By recognising that e-commerce das changed the ruites. Effective leadership demands that senfor executives have a greater technological knowledge than in the past. Most injustrantion. In essence, this involves being attuned to the company's strategy of interversional holdings, so that these can be kveraged to improve husiness relationships.

Where in Level II it was appropriate merely to align if strategy with business strategy with the drandic developments now taking place in Information and technology. Executives need a mew mindset; they must realise that e-commerce strategy is business strategy.

Breakout strategies legin with executive commitment to an e-commerce vision. This vision is

Summary

all it can to leverage customer biformation to build market share and increase profits. An executive taskforce should systematically gather information about customers, suppliers, business partners and e-commerce technologies as they relate to the CSLC. This indivisive assessment can be aystematically compared to the company's current business strategy.

Using a variety of brainstorming techniques to break away from stereotypical thinking, a broakout strategy is then envisioned. The aim is to alter the course of the company by leveraging asymmetrical information so that it will entergo as a kender in specific products or services.

Breakout strategies use industry best practices of the control of the company, but theoretically obtainable, strategies are anbittous, but theoretically obtainable, strategies for the control of the information economy, this strategic reinvention misst be done hubblishing to maintain the company's forward course and industries. Fortice are controlly to maintain the company's forward course and industries. Fortic syspericates the world, sonlor axocalives have begun to focus on Lovel III transformation to their companies and industries. Fortics oxperience is typical. In 1986 it lanuchols in nedium and source of intellings send augpliers by extending existing EDI. However, and suppliers by extending existing EDI. However, major competitors quickly followed this strategy and Ford's advantage was not sustained.

Forti, General Motors, Chrysler and Toyota broke continuiteation infrastructure of interactive tools.

Business strategies were transformed by coopetitions and scope of the automotive community of parts and designs to retues costs. Companies bounding a web of alignment endomenting the community neoned east on both the effect of doeponing the community in the best to other others.

how to gain trust in cyberspace Surfing among sharks:

Internet merchants face an inherently bigger challenge than their brick-and-mortar counterparts when it comes to winning the consumer's trust. As **Sirkka Jarvenpaa** and **Stefano Grazioli** explain, reputation and size are harder to convey and close customer relationships more difficult to develop in cyberspace than in a traditional physical setting.

Tampering and eavesdropping continue to discourage some electronic shoppers, although technology and the law are coming to the rescue. A more serious problem is fraud and the growing number of "fly-by-night" operators attracted by the internet's low entry and exit companies on the best ways to gain customer confidence. Seller size, they stress, is not costs. The authors document some recent scams and draw on fresh research to advise enough on its own but needs to be coupled with a good reputation and endorsements from independent third parties.

internet makes it an ideal medium for pyramid schemes. According to the US Federal Trading Commission (FTC), tens of throusands of consumers have already lost millions.

"Pump and dump" consists in artificially inflathing the price of a security and selling it immediately afterwards. The US Security and Exchange of Commission (SEC) has taken action against an internet newsletter that recommended the purchaso of several stocks and predicted that their market price would double or triple. According to the SEC, in making these recommendations the purchaso of several stocks and predicted that their market price would double or triple. According to the SEC, in making these recommendations the preceived substantial compensation from profiled issuers of securities, and that it had sold securities abortly after recommending them.

New scaus for the consumer are made possible by the distinctive features of internet technology. For instance, internet-enabled interactivity makes it possible to conduct online auctions, an exciting new development in retail commerce. Risks in this area include bid-price manipulation, false product descriptions, and failure to deliver merchandise. Recently, the FTC brought a suit to stop a seller who offered for sale personal computers on several auctioned spoods.

goods.

Another distinctive risk is the possibility that a proportunistic merchants will take control of a customortunistic merchants will take control of a customortunistic merchants will take control of a customortunistic merchant will take control of a customortunistic merchant "highscked" the moderns of unsuspecting consumers. The moderns were then internet merchant "highscked" the moderns of unsuspecting consumers. The moderns were then instructed to sever the phone connection between the consumers computers and their internet service providers, and to re-route them towards a high-price international line. According to official sources, an estimated 38,000 people were swindled by the scheme.

Howest internet merclands face what economists call the "lemons market" dilemans: when it is difficult to tell the difference between good products and drives away the good products (and eventually, of course, the consumers).

The use and decline of pay-per-call services in the US over the past decade is an instructive example. According to governmental data, us consumers bought #5bn in pay-per-call products and services in 1991. The vest majority of merchanis who adopted the new technology were honest but a few were not. As the industry and the government twere slow in reacting to the fraudsters, the reputation of this means of payment became tarnished and aggregate yearly business dropped to just as

Reputation building

Building a good thereat reputation is obviously critical for success in e-commerce. The Amazon-com story is repeated over and over again in corporate becave trooms as well as MBA class. Trooms. But it is worth montioning bere because the compeny's continued losses can be attributed in large part to the hige investment it has had to make to build its credibility as an efficient low-considers, thase investments are paying off. How are not interret morthant build customer treatly excluded the special provider. At least in the eyes of the company's sharebolders, thase investments are paying off. How are not interret morthant build customer treatly setablished when particle she shaller beck-readily excluded when particles have shaller beck-readily excluded are growing above, scores of cacadamic research studies have shown that trust is most readily excluded when particles have shaller beck-readily gromany and staff to overseaftly with the customer's interret customer's interpret of the interret becked to emphasize cultural homogenity with the customer's language, referring ground, are provided to emphasize cultural homogenity with the customer's language, referring ground, well as pronuctional campaigns designed to stimution the customer's language, referring the provider of the word of interretion of trust.

Some websites have started to include photos and vince the perception of quality sarvice and to boest the number of impersonal. But this can prove to be a double-edged sword. What appeals in one part of the word may be off-putting in another. To reinforce have edged sword, what appeals in one part of the word of interretions, stores been obtained by a group of researchers dreawn from the University of Melbourne. The group has studied ways in which online retailers of interret stores, and that those differences in the willingness of prospective customers to shop in this new cross-border retail environment.

The researchers and the University of Melbourne. The group of researchers in the will

largest site in a particular category (for example, being the world's largest music store) does not by itself seem to affect consumer trust. Seller size has much more influence on trust when it is coupled with a good reputation. Hence there appears to be little payback from banners beasting about a web merchant's size unless they are accompanied by stories from credible third parties or customer testimonals attesting to the seller's reputation.

Reputation, in short, is far more important in global internet selling than in local retail store marketing.

To an extent, trust can be transferred. Merchants seeking to enhance their reputation might therefore consider cross-linking their sites with other reputable, well-known sites. Trust, however, can also be quirkly destroyed, internet merchants aboud be wary of applying marketing tactics that could undermine consumer trust. Consider, for instance, the practice known as differential pricing, which consists of effering different parce offered to they are offered is greater than the price offered to their neighbour, trust in the morchant can quickly fade.

Finally, we would argue that tillings which traditionally engender consumer trust can change in the light of experience in an electronic environment. At least initially, customers who flock to the internet will assign trust to internet merchants on the basis of the same cues that they use when they internet with their brick-and-mortar counlerparts. But positive and negative experiences, both porsent and abared, will shape attitudes thereafter. Successful merchants will be those who learn to send the appropriate signals, so that the buying public can surf selely among the sharks.

This week

Surfing among sharks: how to gain trust in cyberspace by Sirkka Jarvenpaa and Stefano Grazioii Websites with a personal touch by John Walsh Page 4

Pages 2-3

internet distrib-ution strategies: dilemmas for the incumbent

by Nirmalya Kumer Pages 6-7

Markets for everything in the networked economy

by Andrew Whinston, Manoj Perameswaren and Jan Stelleert Pages 8-10

Moving to the net: leadership strategies by Robert Plant and Lesile Willcocks Pages 10-12

Reaching the next level in e-commerce

by William Kettinger and Gery Hackberth Pages 12-14

Gates opens up

The interview: March 17.

The book: serialised from March 18.

On Wednesday March 17, In an exclusive in-depth interview, Bill Gates talks about the future of business and how you could win or lose as the information age speeds into a new millennium. And serialisation of his new book begins on Thursday March 18 – only in the FT.

FINANCIAL TIMES
No FT, no comment.

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Websites with a personal

customer has been a precondition of a successful enterprise. Early vondors won a customer's
patronage by forming a relationship with him,
knowing his likes and dislikes and thereby making
transactions easier and more pleasant.

In the last quarter of this century, the corner
stores that offered this lovel of service have been
dying off in the face of competition from hypermarkets and shopping mails. These impersonal
businesses knew their customers too - they
guessed correctly that when faced with a choice
between low price and attentive service consumars
would opt for the former.

As we look forward to the next century, internet
retailors - inevitably dubbed "e-tailors" - will domlaste their brick-and-mortar foss. How? By offering
service more personalised than corner shops could
ever contemplate at a price lower than the largest
cluth stores could profitably charge. In doing so
they will use a broad ratipe of high-tech methods to
understand each and every customer's unique
desires.

On the record

Transactions taking place on the web are offortlessly, costlessly and automatically recorded as a
collection of bits and bytes. The anonymity of cashbased transactions has not made its way onto the
web. (Although the concept of "e-cash" has been
discussed it is unlikely to retain the anonymity of
noits and coins.)
To make a purchase on the web a consumer has
to give personal information. Typically, the minimum is credit cand details and a postal address
although sometimes a short questionnaire may
need to be completed. Even where no purchase is
anade, information may be required.
For example, newspaper websites such the
smade, information may be required.
For example, newspaper websites such the
financial Times and The New York Times, which
are free, ask visitors to use the same username and in
pussword when they visit. This information can
subsequently be used to analyse reading patterns.
How many people read only the headlines but do so
every day? How many read each and every article
but visit infrequently? The anonymity of browsing
through periodicals at a newsstand does not exist
on the web, and the information that is recorded
can be used by managers to great effect.
For, a glimpse into the future, the reader should
visit Peapod.com, an online supermarket and one
of the more sophisticated recorders and users of
customers' personal data and shopping behaviour.
With over 100,000 customers in eight US cities, de
Peapod's website sells groceries that are then delivered to customers' homes. A list of previous purchases (including brand, pack size and quantity
purchased) is kept on the site, so the customer can
make minor changes from week to week, saying
time and effort.

For a database on each shopper

Peapod creates a database on each shopper that includes their purchase history (what they bought), their online shopping patterns (how they bought), their online shopping patterns (how they bought it), questionnaires about their attludes and opinions, and demographic data (which Peapod buys from third parties). A shopper's profile is used by the company to determine which advertisement to show and which promotions/electronic coupons to offer. Demographically identical neighbours are thus treated differently based on what Peapod has learned about their preferences and behaviours over time.

Shoppers seem to like this high-tech relationship marketing, with fit per cent of all sales coming from repeat customers. Miniplacturers like it to. The more detailed customer's information enables them to target promotion at customers who have repeatedly bought another brand, thereby not giving away promotion dollars to loyal customers.

We can expect to see many move supermarkets in a variety of countries offering a similar service. Penpod has recently divested its software division, uppropriately mad in other industries with a similar similar structure. It has already signed a deal with Cole. In Myers of Australia.

Summary

with hypermarket prices. Much of their advantage will come from their ability to profile individual customers by tracking their pattern of clicks online. This will enable them to tailor the site to the customer, boosting John Walsh, they have the potential to combine "corner shop" service Internet retailers are set to dominate consumer markets. According to revenue from consumers and advertisers. The challenge for managers consider obtrusive. is to collect and use "clickstream" data in a way that people do not

Reading the clickstream

Is it worth it?

Oiven the potential advantages for consumers and vendors alle, the manager's challenge is twofold: (1) to devolop a website that collects the relevant data in an unobtrusive way to which customors will not object; (2) to determine low to analyse the vest quantity of data that will be collected and integrate it into decision-making. For companies with a mass-production mindset, addressing these issues may prove too difficult.

So how do websites collect this useful informeting a name, physical address, email address and perhaps some ofter demographic data (such as age and income). From the customer perspective, this is all that needs to be done; he does not have to answer any more questions.

When the customor comes to the site in future, which the customer comes to the site in future, when the customor comes to the site in future, and computer. In either case, we can associate each is subsequent visit with the answers the customer gave on the registration form.

From the manager's perspective, the work is just beginning — the website has to be personalised for the user. How? From the initial survey, we may have learned that the user is male, young and the user. How? From the initial survey, we may have learned that the user is male, young and the user is profile. If we are running a new site, we can provide information that typically appeals to this demographic profile. If we are sulling clothes, we can feature items that are usually bought by poople fitting this profile. If we are sulling the mouse, His is sequence of clicks (or "clickstreams") will be central to personalising the site. Clickstreams reveal what he is really interested in. Perhaps on news sites he always goes to the sports section first and immediate healty reads shout Manchester United's latest victory. Advertisements for Man U's most recent strip took ut information to the answers given at registeration. They are at the heart of Amazun.com's personalisation of the subset of click': I be fully contrained to the answers where shoppers to be had In a recent study by Jupiter Communications, 35 per cent of surveyed internet executives said personalisation capability was the most important determinant of who they use to develop their website. Clearly this is an issue that is capturing their altention. But have the collection and analysis of clickstream data, and the subsequent website personalisation, been worthwhile? Have companies profited from it or is it all hype?

The addition of personalisation capabilities can add up to \$3m to the cost of a website. Yet husiness wheok reports that personalisation pays for itself within a year. It does so by increasing the loyalty of users to a site. When people recognise that an offering is targeted at thom – or, indeed, when they have a hand in its creation – they are more likely to return again and again.

Companies selling information rather than products over the internet have been able to charge advertising becomes more targeted. Internet have been able to charge advertising has grown explosively, mostly because of the growth of the internet itself, but in part because advertisers can get their adis viewed by more specific groups of people. There have recently been same extraordinary manifestations of this embrasism for targethag, for puters to people who agree to have their online is behaviour recorded and advertisements beamed at them.

Loarning from purchases will not be now to many companies. Consumer goods companies employ armics of analysis to apply advanced statistical models to sales that taken from in-store burcode scanners. However, on the internet, purchase data is a tiny fraction of the total clickstream data to which companies have access.

Clickstream data are analogous to data that fullow a shopper's eye movements in a store, as he or she considers one brand and, on seeing the price, rejects it in favour of the cheaper generic. Perhaps them.

How will business be affected by personalisation? Treating customers as individuals will become more prevalent and, since we are talking about the interact here, this is likely to happen soon. Essentially, personalisation will become just another cost of doing business.

In the early part of this century, Heary Ford brift a very successful company by affering customers a cart in any colour they wanted as long as it was black. Early in the next century, personalised communication and offerings will be so communication and offerings will be so communication and offerings will be so communication as a continuous see Hearry Ford's colour.





Connect the dots.

Problem

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85,000 minds

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Solution

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ERNST & YOUNG

FROM THOUGHT TO FINISH."

confinued from page 11

market coverage and closer relationships with customers. Naturally this has influenced the speed at which it is developing its internet activities. The company reports that the internet is not only more profletble than traditional channels, but that it the tends to receive a fairly constant amount of use, even when demand is loss steady elsewhere. In Japun, Aland's internet revenue has been eight net times that from traditional channels.

Royal Carlibbean Cruisos, one of the world's largest cruise lines, evolved from a "Technology" the web presence in 1997, through on-line sales. By contrast, American Express first focused on brand, to a more recent "Market" focus, achieving significant market growth through on-line sales. By contrast, American Express first focused on brand, reinforcement, as one marketing executive stated: "The internet is where the home run is - when you leverage what you are good at already and you use online in a way that cannot be duplicated. It reinforcement is where the home run is - when you leverage what you are good at already and you use online them better, and reliferes and services are, makes them better, and reliferes your brand and what it mans." But more recently it has moved into market graces what holping customers to trade stocks online. Finally, US broker Churles Schwab had no expected by recent of its trading takes place on its website that is, 3thn in securities every week, The Indenet event has allowed Schwab to reduce its prices and, more on

importantly, to provide real-time, individualised information to customers at very little cost. It is now the largest single internet broking company.

Companies with this level of success clearly see the new business model which the internet makes possible for thom, and commit to the hilt on the financial, technical and management resources we needed. As Richard Lichfield of American Bankers inseeded. As Richard Lichfield of American Bankers a lusurance Group remarked: "It's a bit like ATMs fautomated tolling machines! Everybody was get ting them and if you didn't you jost customers. But the internet also relaforces organisations, adds new channels. It is a real transition in business, it one of those points where huge differences can be shown and made."

Succeeding on the internet
Strategic focus is not enough to guarantee success
in e-commerce. Further drivers, some quite traditional, are required. The most important are:

A senior management champion, preferably the chlof executive

A strong and flexible if infrastructure

• Adoption of a sourcing option that reflects the mission-critical nature of the internet. Although companies often start with an in-house group thrown quickly together (often dubbed a "skumk works") or complete outsourcing, the technology rapidly becomes ton critical. It needs to be either established in-house with a centralised core and marketing heavily involved, or a strategic ulliance has to be sought with a technology partner. Bellef that R&D for online activities is a strate-gic investment - we found that funding for inter-net projects sparked no serious "roturn on invest-ment" questions in leading online companies

■ Focus on areas other than the husiness-to-cunstance channel. We found that leading re-varametry companies had made or were making heavior invostments in inleanel, extranel and supply chain apply at the constant of the constant.

a direct stake in the information on the website

• The ability to climb the learning curve quickly – what struck us about the companies that are making the best use of e-commerce was the special which they developed online projects and the wealth of future online options that they considered.

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No. 3 Service Tagentia

Willcocks, C., Foory, D. and Islo, G. (octs) (1997) Managing IT As A Strategic Pasaurer, Mathenheart MrGraw-IIII.

reading

Hagol, J. III and Armstrong. A.G. (1997) Net Galn, Boslon, MA: Harvard Bushess School Press.

Plant, R. and Willcocks, L. (1999) Internal-Bresel Business Strategies: The Search For Landerskip, Oxford Evercutive Nassarch Briefling, Templehon College, Uxford, April.

level in e-commerce Reaching the next Active support by the organisation's "contont owners" (that is, groups and individuals that have

Summary

ness models by integrating across functional departments. To reach the third level, however, a "breakout" strategy which disrupts the status quo is likely to be necessary. Such a change may be too radical for many companies to undertake immediately. The authors conclude with a list of questions to help executives determine at what level their company is operating. applications; the result is disparate "islands" of e-commerce initiative not tightly tied to business strategy. At level two, companies incorporate e-commerce to support their current busiexploit information asymmetries and fully leverage relationships with customers and partners, argue **William Kettinger** and **Gary Hackbarth**. There are three levels of strategic sophistication. At the most basic, individual departments take a lead in developing specific internet Companies need to break with prevailing ways of thinking about e-commerce if they are to

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South Carolina.
Kettinger's
photo is on file
at FT from previous article
with Don
Marchand

In the classic 1947 movie "Miracle on 34th Street", Macy's Santa Claus advises parents to purchase hard-of-find toys from the Macy's competitors. While the store loses some sales, this results in processes of satisfied customers soeking Santa's activities, increased store traffic and, ultimately, lots anore sales for Macy's.

To achieve this win-win approach in today's age of e-commerce, Macy's must do more than employ a friendly Santa, it must consider a transformer motional business model based upon information consistent tion unavuilable to or unusable by its compatitors. These exist wherever a company belaverages customer, supplier or consumer information. Today we can go one step further by sharing ton business information with competitors in a reciprocal relationship to build a "virtual ecosystem" to introduced by James Moore, virtual ecosystem; to introduced by James Moore, virtual ecosystem; to fint suppliers (who may also be their competitors) to offer complementary services.

A virtual ecosystem could oxibid Mucy's brand recognition and sizeable customer base by allowing competitors to sell complementary products and services through portals on Macy's wobsite; this would increase the competitors own truffic and brand equity. Likewise, a competitor could build a broothers and services to enhance that sells Macy's Tog

Gary Hackberth

Is a research

associate at the

Centre for
Information

Management

Management

Management

Messarch at the

The Daria Moore

School of

Businose,

University of

South Caroling.

Rethinking a business model by exploiting infores and partner relationships and finding the right fit of "co-opertition" requires a company to break with prescribed ways of thinking about e-commerce. To achieve this level of sophistication, managers must be able to implement effective c-commerce "break—the out strategles".

Products nowadays are more standardised and more alike in terms of quality than ever before, do consumers therefore find it difficult to distinguish op between products simply by comparing physical personal computer has girlinguish between products simply by comparing physical autinbutes. They base buying decisions on the information value added to a product and on the cus-site tonised service associated with it.

For example, the personal computer has gruwn into be a commodity product. Yet, Dell Computer has girlinguish or a commodity product. Yet, Dell Computer has gruwn in to be a commodity product. Yet, Dell Computer has gruwn in the beach of differentiate its PCs by using an o-compared by detailed customer information is support.

In this competitive environment, the traditional managed to differentiate its PCs by using an economical managed to differentiate the customers, suppliers, partners, any ported by detailed customer information. Goods and services begin to biur. In any add value at each stage of a chain but work it together to create new value for the customer. Together they provide an integrated, seamless

Three levels of strategy

E-commerce strategy and implementation pass through three levels of increasing sophistication (see Figure 1).

Most companies are at Level 1, where individual departments take the technological lead in developing specific internet applications. These disparate applications are not tightly tied to business or o-commerce strategy. For example, the marketing department may create a public relations website while research und development uses an intranet for sharing designs and the purchasing department links its largest suppliers with EDI (electronic data interchange). While these applications as over purceful interests, senior managers have filted the of the payoffs.

Many Industry leaders (such as Wal-Mart, Serigium's, Cisco and Tesco) have successfully moved to Level II. Those companies incorparate ecommerce into their business model by integrating auross functional departments. They focus on direct support of existing business processes.

Level II companies are driven by the promise of cost reductions, better business support and

offering of products and services that extends each of their capabilities.

Sometimes the right answer is deceptively simple. No matter how basic or complex your information technology problems, we can resolve them, just as we do for four out of five of the world's largest Companies. We never stop asking what do you need most? People and software for business applications. COMPOWARE What do you need most A hedge trimme Ingenuity WHEN YOU FIND YOURSELF IN A PREDICAMENT LIKE THIS, THERE ARE CERTAIN THINGS YOU NEED

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dilemmas for the incumber nternet distribution strateg

Summary

have been affected in different ways. Just as television and later home video extended the transform them. Different industries - and different companies within the same industry -Like all innovations in distribution the internet can disrupt businesses as readily as it can and opening it to everyone in a market free-for-all. Cannibalisation is a danger -- but history using the net for sales at all, letting resellers use it exclusively, using it themselves, directly to consumers. According to Nirmalya Kumar, manufacturers have four choices: not retail investment brokers. Travel agents, on the other hand, are suffering as airlines reach out film industry's distribution channels, so the internet looks to be expanding the market for suggests that most companies cling to declining distribution networks for too long.

all distribution network assets rather than leverale distribution network assets rather than levergo them; to turn their core competences into core gidities; and to disrupt their industry leadership distions rather than reinforce their dominance. To sees the disruptive capacity of the internet as it elates to distribution strategy, incumbent compalies should ask the following three questions: he internet is a radical new distribution chan-net. Consequently, many established incum-bent companies four that the internet has the antial to harm them: to be competence-destroy-instead of competence-unhancing; to devalue r distribution network assets rather than lever-them; to turn their core competences into core dittes; and to disrupt their incustry leadership

- what extent doss internet distribution complement displace existing industry distribution channels?
- To what extent does internet distribution enhance or destroy the company's core competences and distribution network essets?
- w will internet distribution strategy interact with company's existing distribution strategy?

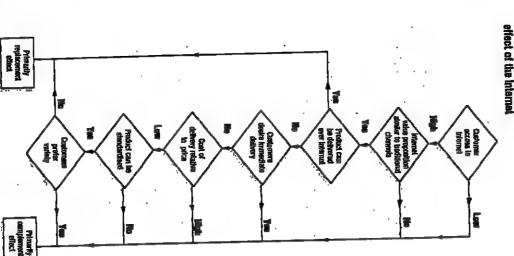
Existing channels and the internet

tores. The superment one-stop same ransortment, one-stop same ransortment, one-stop same ransortment, one-stop same ransortment of little more userally better than that offered by the mouser store. The result was both an absolute and relative store. The result was both an absolute and relative stories, in the first distribution channels available to the motion picture industry.

In the face of the current media hype regarding the internet and how it is going to destroy existing vaderstanding the dynamics between address tanding the dynamics between the internet and any angles useful to spend and bome.

When television first appeared in the 1950s, it was seen as a great threat to the Hollywood studios. As a result the market value of Hollywood studios fell dramatically. A similar story was repeated with chiennas when home video first appeared. In each instance, two important issues

value proposition of the new distribu-



vision and home video) was not rather different from that of the ation channel (cinema). Homo is, offers greator assortment, time nality and lower prices. On the mass have the excitement of a

Ration channel made it much casker for the con-mer to buy and consume the product, thereby suffy expanding its total market.

This changed the economics of the mayle indus-y because producers did and next to rely solely on sema revenues to break even. The new distribu-m channels were hungry for product. Television at video expanded the market for motion pictures ad provided substantial additional streams of rev-ues for the industry.

going to increase the number of vacations or business trips consumed, instead many customers will see little need for a travel agent if oil nocessary information is available over the internet and is accessible faster than through a traditional travel agent who promises to call back but never does, ruthermore, there is no product with air travel that needs to be physically delivered, since confirmation numbers and e-mails are adequate for most travellers. (Those who prefer having the traditional travellers. (Those who prefer having the traditional travellers. (Those who prefer having the traditional travellers, the share of US domestic airline reservations booked through independent travel agents has declined from 80 per cent to 52 per cent. Travel agents are in decline as increasing numbers of travellers elect to buy their tickets directly, either via airlines websites or over the telephone after a search of those sites or over the telephone after a search of those sites. nother case
not will be to replace many
verent distribution channels.

verent distribution channels tickets or to make
verent is not

In contrast to what is happening in the travel industry, the internet has empowered and encouraged more individual investors to buy and sell stocks and mutual lumis, information such as past financial statements, earnings estimates, analyst recommendations, customised portfolio analysis, and real-time quotes, which was previously

Moving to the net: leadership strategies

Summary

Managers are confused by the way the boundaries of competition and strategic thinking are commerce strategy. Where companies do have a strategy, say Robert Plant and Leslie expanding in the information economy. The result is often failure to implement an effective e-Developing technology just to be in the race generally does not pay off - companies with Willcocks, they focus on four key areas: technology, branding, service and market growth. and active support by the corporate website's "content owners". that the most important success factors include strong leadership, a flexible IT infrastructure strategy. The authors' interviews with executives in US and European corporations indicate good e-strategies simply "pick up" the technology in developing an information or marketing

very fast. Thnc-kused competition has become critical. Companies new need to be able to develop a strategy in "internet time".

I trailing organisations learn quickly and are able to shift their strategic focus. Dovolopment of an integrated information and marketing platform is likely to pay off; over time it should anable deoper understanding of technological capabilities and business possibilities that can be converted and stron

he transience of technology speaks on technology are found in all industrial sectors. Technology are found in all industrial sectors. Technology are found in all industrial sectors. Technology condorship involves early adoption of an emerging sechnology to achieve a pre-emptive position in its application for compotitive advantage. Many computies we studied, including Citicorp, BMW, Pratt & Whitney, W.R. Grace and Genontech, began in this quadrant in the mid-1990s.
However, developing technology just to be in the ruce does not pay off. Companies with good estrategies learned the technology in the course of developing an information and/or marketing strategies learned them to shift their focus over time

quadrants. Another effective approach was op the technology further for internal use franet or to apply it to supply chain mark in the form of an extranet.

rai example of shifting focus is provided by the iS power utility industry, which uses the intercet buy and sell natural gas, and to make bids for as and pipelino capacity. This is mandated by the estoral Energy Regulatory Commission through a raten called Oasis (Open Access Same Time iformation System).

The utilities see their tochnology leadership rategy as a ploy to increase and lock in market are, for both residential and corporate commers. While their mandate is to reduce their cusmers' power consumption, they balance this with strategy of increasing their market share, which made possible at dramatically lower cost by the

internot technology boosts the utilities' ability to initernot technology boosts the utilities' ability to initernot technology boosts the utilities' ability oven individually even individually even individually even individually even individually even of the energy-saving. Their strategic focus is tration moving from "technology" to "market". In individually in the use of the energy to add value; the utilities alm is to low the utilities to get closer to customers and to eate wider market coverage.

8

ing-Lot

new sales channel at present, ue a "brand" focus, reinforcing vareness of and regard for their a company must add value by the to customers and developing ship with them. This is not a stand the content one, in

bream cars and even to hear the sound of its Maream cars and even to hear the sound of its Maream cars and even to hear the sound of its Maream cars engine in the Z3 Roadster. But unlike series engine in the Z3 Roadster. But unlike series engine in the Z3 Roadster. But unlike owners to visit a traditional dealer, not because it sechnology to sell via the internet, but because it feels that the relationship between customer and company is best served by face-to-face

tomer and company is best served by face-to-face interaction and bonding.

Even though such internet channels do not directly generate revenue, they do bring tangible benefits for companies – such as BMW. Citicorp. Land Rover and home financier and builder Lannar – that understand the "marketspace". All four confirm tangible returns through feeding insights from the internet into their retail operations. According to one respondent, "What makes the internet such a wonderful marketing tool is that it shows fairly quickly what works and what does not work."

An obsestive focus on information and the customer is the most effective way to establish service leadership via the internet. Service should not always be expected to translate immediately into purchases by customers. Its value often consists simply in building relationships with, and gathering information about, potential customers.

The value-adding effects of building virtual communities have been well documented by managemunities have been well documented.

danonial feature of such networks is that their value increases exponentially oven as they grow incrementally. Over time, the companies that nurture them can look forward to more customer transactions and greater revenue.

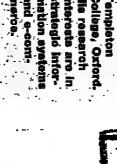
Other companies have taken less radical – but nevertheless profitable – approaches to service over the internet, Consider UPS, the world's largest package distribution company, which transports more than 3bn items a year. It is currently using the internet to pesition itself as a deliverer not just of packages but of information. UPS's "Document to packages but of information. UPS's "Document of packages but of information. The secondary over the attempt, with the same benefits – such as package tracking and delivery confirmation – that it offers with physical packages. The internet also makes it easier for the company to customise logistics for its customers – for example, by ensuring that parts constimes. We found examples in most industries: the internet is allowing organisations to offer the movative service variations to more and more customers. We found examples in most industries: utilities such as Entergy and the US-based FPL offerent community activities; Amex provides tools in support community activities; Amex provides tools for customers to carry out their own financial portions.

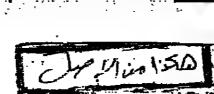
In search of market growth

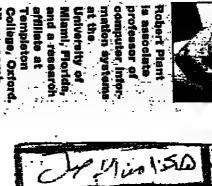
Still other corporations have combined marketing, service and information to achieve disproportions ate market growth via the internet. Office Depot, a US-based company, receives 300,000 orders for office products a day through its straightforward, user-friendly internet site. The company sims to retain customers by providing a convenient and efficient service, and also provides real-time inventory checking and customer call centres.

Car rental company.









Moving to the net: leadership strategies

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dienmas for the incumbent

Internet distribution strategies:

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Mastering INFORMATION

10 Mastering INFORMATION MANAGEMENT

Continued from page 8 ability, the target product group, efficiency of user interfaces, and entalogue services.

Types of product

The products sold over electronic markets can be roughly grouped into two categories; purely digital goods and services, and physical products.

Digital goods and services

The first entugory includes information, pewes services, such as financial information, news services, such as financial information, news services, reference and learning material, entertainment and multimedia products, software distribution services, in addition, the intertainment has spinwined innovative digital products such as confine gaming, chairoonne, sourch engines, confine atwardising, yellow pages and certification survices. These products no characterised by being difficult to value and custy to copy; related by being difficult to value and custy, zero marginal custs and unextentiating over copyright, zero marginal custs and unertainty over quality.

Companies use different strategies to price and market these goods. They include customisation and bundling, bundling valuable content with advertising to previde "free" goods, introducing different users, charging subscriptions and, most importantiy, using market mechanisms to help set price.

Physical products

Markethyr physical products over the web has led to some of the biggest success stories in e-commerce. The key to success is markethyr that takes advantage of the interface and the networked environment. Transferring a conventional mall-order business to the web adds little value.

The potential advantages of the internet include the scope for real-time interaction within a vast notworked community, the possibility of using sophisticated market mechanisms, and the illusion of almost infinite inventory (when an intermiliary acts for many suppliers). Businesses that exploit these opportunities, such as Amazon.com and E-Bay have met with enormous success.

Several successful internet businesses make their products freely available to consumers and rely on revenues through advertising supplied with the content. The business model can be understood by viewing supplied with the content. The business model can be understood by viewing supplied with the content. The price of the consumer resolves a bundled good, with a positively priced digital product or service, and negatively priced advertising. The price of the content, thus giving the consumer the illusion of a free good. Howall is a classic example of this approach, Hotmali's innovative idea was to offer whebbased e-mail to consumers, which implied that they did not have to procure a specific e-mail application, and could send and receive e-mail from any desktop with web access.

The success of the idea depended on capturing a large customer base quickly, and the e-mail service bundled with advertising. HolMail can be viewed as an intermediate that buys advertising from companies at a negative price, and reselis it to customers. Further, each e-mail sent by a HolMail user serves as an edvertisement for the service traeff, a powerful way of exploiting the internet's connectivity. The growth of HolMail's customer base has been extraordinary, and the company has been bought by Microsoft for a hefty sum.

The success of the free bundled good strategy depends on the number of customers that this number grows rapidly. With an innovative and useful product, this strategy can reach; if the product is valuable, the fact that it is "free" ensures that this number grows rapidly. With an innovative and useful product.

The eBay website (www.abay.com) provides a forum for sellors to put up goods for auction, and for buyers to bid for those goods for auction, and for buyers to bid for those goods. In effect, it host numerous single (English) auctions at a time; it is a little like a huge flea market.

Bay demonstrates a basic feature of successful infarmet enterprises: an idea, however simple, that exploits the unique characteristics of digital networks. The net represents a lerge community of buyers and sellors, with numerous goods to trade. Online newegroups and classified ads provided forums for trading before; eBay took this further by introducing auctions. The internet enables it to run hundreds of them at once at relatively little cost.

Like other successful internet businesses, eBay's growth is linked to a fast growth in its user base. But unlike most others, eBay directly earns revenue from users, by collecting percentage feas for auctions. This could make eBay vulnerable to competitors that could charge lower fees or no fees at all; its customer base is not necessarily locked in and could defect to oheaper elbarnatives.

Customisation and bundling

Figure 2

The virtual environment makes possible unprecedented custonisation of products and services. In the real world, sellers spocialise in highly standardisch, individual products. Customers ty to conclinate purchases across a broad spectrum of products on the basis of posted prices. The digital world, in which hiformation can be acquired and products on the basis of posted prices. The digital world, in which hiformation can be acquired and processed with ease, lets sellors tailor their products to individual customers. Further, the electronic rate to individual customism for specialise in the electronic rate to variations in consumer preferences, lead to the possibility of bundling goods in the electronic markets. While most sellors specialise in individual products. Because the products in these sets compined to the products in the perception of the same product will very from products. Incause the products in the perception of the same product will be according to their preferences; efficient in the physical world. It is unrealistic for selloid tradictions will profor a different product bundle, and the ostablish these valuations. But in the highlal hese valuations. But in the digital reconory the situation is different. Negotiated tradictions according to their preferences; efficient algorithms can match bundles to bundle trading mechanisms can allow consumers to hid for him mechanisms can allow consumers to hid for a compose consulting allows traders to submit a valuation for a complete portfolio of assets, instead of requiring prices asset-by-asset pricing.

In markets characterised by product complement allowed may simply trading. Possible applications extend over a wide range. These include commodity tradictions extend over a wide range. These include commodity tradictions energy markets, read of frequency spectra, network resource allocation, corporate information systems, supply chain management and enterprise software systems.

HotMail

reading Further Success in the digital economy often depends on business models that exploit the unique features of the networked environment. This is in contrast to business initiatives built around the transfer of conventional business models to the internet. For example, many taicos have maintained yallow pages on the net for a long time without achieving conspicuous success.

Contrast this with Yahool which identified the need for yellow pages tailored to the digital world. It exploited the internet's connectivity to let users register their websites and choose for themselves the category in which to list them; in affect, the directory built itself.

First-mover advantage can be critical. With established brand equity and a strong customer base, Yehool has been able to stay shead of the competition by adeapting to newer frends such as personalised internet portals and free web-based email. The advantage conferred by being the first to Innovate can offset competition from better technologies.

Vahool

Whinston, A., Choi, S., and Stati, D. (1997) Economics of Electronic Commerce, Macrivillan.

events were in ask investors what the major events were on Wall Breed in 1988, two facus event events were on Wall Breed in 1988, two facus would be raised—the "mid-ranh" ou the end of overection" of August and the internet. It appeared that all year had to do was put "com" ou the end of your name and your sales by the windth in the low and Nashin was due in part to online trading, which allowed retting trades access to the markets like awar before the internet stack hab he was in part facilities of economiere includy in the markets like awar before the internet stack hab he was in part facilities with the rail of economiere includy in the markets like awar sacritie would in the 1884 with the mest sarred sacritie event in the 1884 with the mest sarred sacrities when the latest in the 1884 with the mest sarred sacrities when the product in the 1884 with the mest sarred sacrities when the product in the 1884 with the mest sarred sacrities when the product in the 1884 with the mest sarred sacrities when the part of the internet leads of the product of the internet leads of the sacred sacrities and sacred sacrities.

The message is clear the internet is heave to stay the part of the internet in challoughes with eastloners. The questions, the internet leads in the laters and consern them yet to which our response is "later proveded diverse approaches Some companies, however, and consern them yet to which our response is "lated quickly could your traphed grown in the planet.

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In the planet of a barrage of new rules for the information on the vasily expanded. The challegue is to keep up with the rained growth in converting toch noteges and to translate their demanded their strategy can be defined as the formation of the companies of strategy can be defined as the followed within the organisation. Milling as a which, when effectively excended within the organisation of the companies of refereive vision of the compa

Four e-strategic directions

In creating an alligned ecommerce strategy we have found four main areas of strategic freues technology, brand, service and newlet. These areas can be viewed in relation to two main issues: the primary feets of the strategy - gaining a market prefile, or marking a significant impact on the bottom. Huse and the main success drivers - a focused information or marketing strategy (see Figure 1).

Several generic points can be made immediately:

■ There is a real sense among the e-connecte leaders that the internet is a foundation stone for a new network-centric business era. In many ways they are following the advice of Carver Mead, a ploneer of the microprocessor, "Listen to the tech-nology, Find out what it is telling you."

• However, technology changes and is never sufficient. Enduring advantage comes not from the technology but from how information is collected, stored, analysed and applied. As the director of corporate communications at one high-technology company put it: "We really need to manage this from an information perspective."

Not just technologies, but competition, opportunities and customer expectations are all evolving

Existing distribution strategy

Must manufacturers who adopt the internet as a direct sales channel find that it places considerable stress on their existing distribution network. As a global network, sales through the internet implage on a manufacturer's existing pricing policies and territorial restrictions. Furthermore, direct sales through the internet leaf manufacturers to compete with their resellers, which results in channel conflict. The extent to which these effects are salwn depends upon which of the following four approaches to internet sales are adopted by the manufacturer.

namidetire.

Plus, manufacturers may decide not to sell their products through the internet and prohibit their resellers also from using the internet for sales. Only product information is pervited in the internet, with any customer queries being passed on to the uppropriate channel member in in industries, such as air-raft manufacturing where sales are ingo, complex sind resolutions and appropriate channel member in in industries, such as air-raft manufacturing, where sales are internet lustuates for resellers and not to sail directly through the internet. How effective this strategy is depends on the existing distribution structure. If the internet is offered to resellers and not to sail directly the translation and tracturing the internet. How critecture is an incerted training to resellers, since resoluters can be restricted to either delivering only to customers within their assignment arrivary or can be criterial to either assignment arrivary or can be criterial to either assignment arrivary are intersically affected. Any fourth generated by the manufacturers websigned for intensively distributed products are always are created. Any fourth distribution arrivals manufacturers websigned for intensively distributed products and prices charged by the manufacturer in most consumers someth for manufacturers website can be frustralling for the consumer sales are resolutes than the namifacturer and prices charged by the manufacturer in most consumers someth for manufacturers someth in the sales for the manufacturer's website can be frustralling for the consumers some arrestil in bus sales for the manufacturer's website can be frustralling for the consumers of a side story, which in the consumers somether and users who place on the manufacturer's website can be frustralling for the consumers of a side somether and an unamifacturer and a manufacturer and users who place not one of the courth strategy, usually sell at retail prices challed is frustrally at fourth strategy, usually sell at retail prices challed and o

The four or cannabalishing existing distribution channels and potential channel conflict requires manufacturers to trade off existing sales through the traditional distribution network and potential future sales through the internet. Unfortunately, history suggests that most companies tend to cling to declining distribution networks for too long.

Business models of Dall and Compagns Through promium for the "brand" and reseller push High-speed, low-variety, low-cost manufacturing system Made-to-stock; one-month, primarily finished-product inventory Primarily through third-party resellers Multiple customer segments with varied needs Expensive brand advertising "Brand" with quality image nsiderable Compaq Through pushing latest component upgrades ("up-selling") and low-cost distribution syntem Knowfedgenble customer beying multiple units lade-to-order, no-week, primarly srough-component westory Hexible assembly, cost advantage Customised PC at competitive price Primarlly through sales force and telemarketing Woderate sale: response advertising Manufacturing Value proposition Supply chain Target customer Business system e Sales and distribution Marketing Value capture e R&D

matterally increased.

This does not mean that there is no replacement effect: clearly some of these internet trades would have gone through traditional stockbrokers. However, by offering for the first time, an attractive value proposition for those individual investors who are willing to holp themselves, the internet has extended the market.

Figure 1 helps in assessing the extent to which internet distribution will have a complementary or a roplacement effect. Most of Figure 1 is based on a roplacement effect. Most of Figure 1 is based on a roplacement effect. Most of Figure 1 is based on a roplacement effect. Most of Figure 1 is based on a roplacement effect. Most of Figure 1 is based on a roplacement effect. Most of Figure 1 is based on the discussion above except for the questions relate sacks for men are easier to standardise because they can be mass produced. Others, such as agricultural products or antiques, are either more difficult to standardise or raist only as unique objects. If products cannot be altandardised then it is harder to communicate their quality through the internet med to consumers will consequently have a greater med to touch, feel and see in order to reduce the perceived risk of purchase. Furthermore, even if a product can be standardise is decined while few customers desire multiple units of the same suite.

Core competences and

Regardless of whether it complements or dispiners existing distribution channels at an industry level, the internet tends to affect the core compatences and distribution network assets of existing players in different ways. Therein lies a large part of its distribution entaure: internet distribution may help some companies leverage their core competences and distribution assets, while it may have the opposite affect for other companies within the same industry. How it affects these things depends on how a company competes within an industry. In the personal computer industry, the worldwide market leaders are Compaq and Dell. However, the business model of the two companies difficis dramatically, as Figure 2 demonstrates.

Company has business systems of the type traditionally associated with branded products. It has high R&D expenditures, low-cost, low-variety,

large-run manufacturing systems; one-month finished-products inventory; and it distributes primarily through third-party resellers. In the early days of the Inditary – whon 18M, with its large direct sales force, was ambivulent about selling through third porty rosellers. This endeared Compact the Cachmulary – whose subsequent upon to be resellers, whose subsequent upon to the resellers, whose subsequent pash was partially responsible for eadputifing Compact for the manufacturing to this strategy. Dell invented a radically different business system. This combines manufacturing systems (which give Dell a slight minimal R&D expenditures, made-to-order, flexible manufacturing systems (which give Dell a slight minimal R&D expenditures, made-to-order, flexible manufacturing systems (which give Dell a slight minimal R&D expenditures, makes the futernet so except the response of the internet surface form it offers compact to response with the customer (interactive capacity) and then do response with a medical distribution for exploit these unique fourtures of the internet, and seles through the internet and website sales currently exceed slidm a day.

Compaq, on the other hand, has struggled to exploit the internet and website sales currently for exploit the hiternet without upsetting the realing and jeopardising its historically strong relationships with them.

In order to limit direct competitive prices of the internet without upsetting larged Dell by almost three years in adopting direct sales in this way. The linternet urned Compaq to promote sales incore competences and distribution network assets a low-cost manufacturing systems and strong relationships with three.



Nirmafya Kumaris professor of marketing and retailing at IMB, Switzerland, His research interests include retailing, distribution, branding, and marketing

the networked economy Markets for everything

Summary

economic markets. Here Andrew Whinston, Manoj Digital technology will have far-reaching impacts on

Model markets

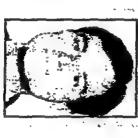
and real markets

of the likely developments. Perhaps the most important Parameswaran and Jan Stallaert provide an overview

ment makes possible unprecedented customisation over time, various forms of auction may displace the same time, a new breed of e-commerce intermediary is emerging to supply information and facilitate trades; and bundling of products, and companies that leverage these and other features will be more successful than those that try to mimic traditional business models. ly among large numbers of economic agents. At the will be increasing use of market mechanisms to solve conventional posted price system. The virtual environble by the internet's capacity to carry information swiftresource allocation problems; this will be made possi-

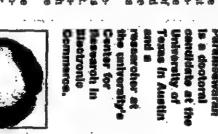
ald be a supply chain sys-n be set up to determine sations dynamically. A cru-markets in these scenarios

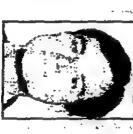
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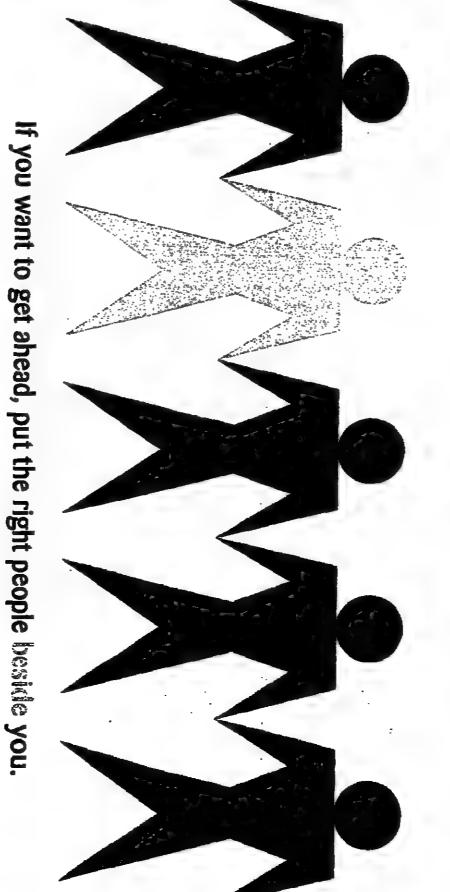












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poised

Andersen

to poach

practice

from rival

Arthur Andersen, the global

Big Five accountancy firm, is

poised to poach a leading

national practice from a rival international firm. The move

would mark its biggest success

yet in a campaign to attract

disaffected partners from its

High-level talks on the pro-

posed merger, understood to

involve an entire national

practice of a rival firm in a G7

country, were suspended on

Friday as last-minute difficul-

ties emerged over the deal,

which would significantly

boost Arthur Andersen's 1998

The firm, which is engaged

in a protracted legal divorce from its sister firm Andersen

Consulting, has embarked on a

policy of posching firms and

partner teams from its rival

international networks, with

recent successes in Chile, Bra-

zil and Germany.

Most of the Big Five are

global networks linking auton-

omous national firms. All are

in the process of building

Arthur Andersen is widely

seen as the most closely inte-

grated of the Big Five, having

grown as one organisation

But the looming split with

Andersen Consulting, the sub-

ject of binding arbitration at

the International Chambers of

Commerce in Paris, will leave

the firm at the foot of the Big

Five league - although it may

be awarded substantial dam-

from its US roots.

international organisations.

\$6.1bn global revenues.

leading competitors.

INSIDE

US making a meal of UK engineering

No conversation with a British engineering executive is complete without a dark reference to US bankers running slide rules over the lowly-rated UK sector. One chastened executive explained why his company was about to be taken over by a US group. "We didn't do the deals," he said. "And the expression here is 'dine or be dinner'." Page 18

Eyes on rates as Lafontaine fades



After the excitement Surrounding the shack resignation of Oskar Lafontaine (left) last week, markets will return to the more mundane task of assessing the relative economic performance of the large economies Data from the US, minutes from the Bank of

England and the first post-Lafontaine meeting of the European Central Bank will keep analysts busy. Page 24

Dow Jones set for five figure mark The Dow Jones Industrial Average pulled up just short of the 10,000 barrier on Friday but, if this week's economic news confirms the picture of a domestic economy roaring ahead with no imminent danger of inflation, it should soon break through into five digits. Page 23

Oil market hopes the rally will hold Oil companies and traders will be eagerly awaiting evidence this week as to whether the latest attempt by the world's leading petroleum exporters will succeed in pushing prices back to the \$15-\$21 a barrel range. Page 21

Bank of Japan to boost Nikkel Information from the Bank of Japan is expected to clarify monetary policy and add to the improved sentiment that last week helped lift the Nikkel 225 Average by 4 per cent. Page 23

Dow Coming changes focus

The past five years have been traumatic at Dow Corning. The maker of silicone-based products has been in Chapter 11 bankruptcy protection and its name has become associated with breast implants and the suffering they are alleged to have caused millions of women. As the company begins to extricate itself from protection, it is seeking to refocus attention on the non-implant side of its business. Page 22

Greeks try their luck with shares Popular capitalism has arrived in Greece. A fall in interest rates on government bonds has sent investors to the stock market in droves and pushed share prices to record heights. Page 22

Endesa

On Friday, March 12, 1999 the Financial Times erroneously reprinted an advertisement by Endesa SA which originally appeared in the Financial Times on February 18 1999. This was an error on our part; we were not requested to run this or any other advertisement by Endess. We regret any confusion this may have caused.

FT GUIDE TO THE WEEK

- full listings Page 34

MINISTERS MEET TO PROTECT CULTURE Diplomats from 100 states meet in The Hague tomorrow to finalise a protocol strengthening the 1954 Hague convention on the protection of cultural assets during armed conflict. ST PATRICK'S DAY CELEBRATIONS

President Bill Clinton hosts St Patrick's Day celebrations at the White House on Wednesday. Nobel winners John Hume and David Trimble will attend, as will Sinn Féin leader Gerry Adams

and Senator George Mitchell. EU REPORTS TO WTO ON BEEF DISPUTE On Friday, the dispute settlement body of the World Trade Organisation meets in Geneva to hear a progress report from the European Union on compliance with a WTO ruling against its ben on hormone-treated beef.

	COMPANIE	SI	N THIS ISSU
	ASB Siemens	* *******	KPN
	AT&T	21	LVMH
	Arthur Anderson		MIH Holdings
	BMM	8	Microsoft
•	. BNP	19	Modular Ink Tech
	Berkshire Hathaway	17	Moi
	Brammer .	18	Nissan Motor
	China Airlunes	20	Nortel
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	Dow Corning	22	Oracle
	B Al	2	Petronas
	Federal-Modul	20	PLJR Nabisco
		19	Renault
	Genural Flactoric		SK Corp
	Gueti	20	Sasol
	Hewlett-Packard	1	Ssangyong Oil
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40,000 REDUCTION OF WORKFORCE TO BE SPLIT BETWEEN DISPOSALS AND CORE OPERATIONS

Telecom Italia plans huge job cuts

By Hugo Dixon and Vincent Boland

relecom Italia is planning to reduce its staff by about 40,000 as part of the restructuring announced last week to thwart Olivetti's bostile €53bn \$57,5bm bid.

About half the reduction would come from the demerger or disposal of non-core assets, but the rest would mean job cuts in its core telecommunications business The Telecom Italia group

The job cuts have not been

announced, in part because of fear of provoking a union Last week, the Telecom board announced plans to cut

annual pre-tax costs by LI,000bn (\$560m). The manage ment, led by Franco Bernabe. is understood to feel confident that it can exceed this target if the job cuts are implemented

The board also promised the has 124.000 employees, of divestiture of all non-telecomwhom 79.500 are in its core munications assets, including

This divestiture programme would further reduce staff

promised to generate L1,250bn a year from the integration of Telecom Italia and Telecom Italia Mobile, its 60 per cent owned mobile subsidiary. About half of this is to come from cost-cutting and the rest from increased revenue. Telecom Italia is offering the

minority shareholders in TIM shares in Telecom Italia. It would then use TIM as its vehicle for addressing mass

its vast property portfolio. market customers, while Tele-facing an onslaught from com com Italia itself would focus petitors. on business customers.

Telecom Italia has also ia's ordinary fixed-line network would be substantially cut and resources channelled to mobile communications. data and the internet.

TIM would be kept separate because Mr Bernabe is worried that the much larger Telecom Italia could infect TIM with its inward-looking culture. He is also concerned that the group should not be diverted by a

Telecom Italia shareholders have given a lukewarm response to its defence strategy. Investors welcomed the restructuring and ownership rationalisation plans, but US shareholders were unhappy that the conversion of saving for the time being. This is shares to voting stock would dilute their holdings

The terms of the buy-out of savings shareholders in TIM are less attractive than for those who hold voting shares.

Buffett attacks the 'tricks' of **US** accounting

Warren Buffett has delivered a broadside over the state of US accounting, describing the attitude of many US executives to financial reporting as "a business disgrace". Writing in his annual report

to shareholders, Mr Buffett also accused the big accounting firms of "kowtowing" to management and, in some cases, proposing accounting tricks to flatter a company's

The comments came as Mr Buffett revealed details of a rare year in which the equity investments of Berkshire Hathaway, his holding company, failed to match the gain in the broader stock market. The Omaha-based investor said the the sale of the compa-

ny's holding in McDonald's was "a very big mistake", and admitted that his decisions on buying and selling stocks last year only served to cut investment gains. "Overall, you would have

been better off last year if I had regularly snuck off to the movies during market hours." he told Berkshire sharehold-Mr Buffett's comments on

accounting amount to the most voluble attack on current practice from the head of a large American company since Arthur Levitt, chairman of the Securities and Exchange Commission, launched a campaign last autumn to clean up companies' accounts.

"Many managements purposefully work at manipulat-

mergers and big restructur-

While admitting that there is nothing new in manipulative accounting, he claimed that "in recent years, probity has

When announcing a restruct- point out the possibilities for a reserves artificially.

investors" when it came to uring or a merger, companies frequently overstated one-off charges, a practice that reduced their future expenses

and so flattered earnings in During mergers, "major

little accounting magic (or a loti," he said. Berkshire Hathaway paid

\$16bn last year for General Re. a reinsurer, but according to Mr Buffett the company had resisted the temptation to use auditing firms sometimes the occasion to boost its

ages, which could fund further "If this deal comes off it would be a big boost to Arthur's," said a partner at a rival firm. "It would also seriously call into question the global ambitions of the firm which is under threat. This is a practice they cannot afford

It is understood talks have been suspended to allow tors, which will be offered up regional partners to be con-

sulted. There was widespread speculation on Friday over which rival Big Five firm - PwC. Ernst & Young, KPMG, or Deloitte Touche Tohmatsu . was the target of Andersen's raid. PwC, created by a merger last year, is understood not to be involved this time.

Crédit Lyonnais sale will limit bids to 10%

By Samer Iskandar in Paris

Institutional investors will be allowed to bid for stakes of up to 10 per cent in Crédit Lyonnais when the French bank's long-awaited privatisation gets under war this month. The limit, detailed in a

decree published yesterday in the French official journal, is higher than expected and may attract more potential core No minimum holding period

holders, who in total will hold

less than a 33 per cent blocking minority. The decree said only that bidders had to be mitted to the stability of their holding".

The government said publication of the decree "confirms its will to turn a page in the history of Lyonnais".

It launches the last sell-off of a top-tier French bank and concludes a long battle between Paris and Brussels over the fate of Lyonnais. which nearly collapsed in the has been set for core share- early 1990s following a reckless

Analysts believe the relative largest in terms of deposits. exchange for a leading role in flexibility of the privatisation's Axa, the French insurance terms increases the bank's company whose chairman attractiveness to potential core

But the privatisation comes bid by Banque Nationale de Paris for Société Générale and Paribas, which is likely to distract three of the four French banks to have publicly said they were interested in buying large stakes in Lyonnais.

The fourth is Credit Agricole, the mutually owned

Claude Bébéar backed the SBP project as a director on BNP's board, is also interested in taka week after a dramatic double ing a stake. So is Ailianz, the German insurer, which already controls almost 3 per cent of Lyonnais's non-voting shares through its French subsidiary AGF.

BNP's unsolicited bid for its rivals was partly motivated by the rebuff to its offer last month to guarantee the jobs of which is the country's Lyonnais's 30,000 employees in

the privatisation. If successful, the bid would create the world's largest bank, with assets of around \$1,000bn. The large institutional inves-

to 33 per cent of Lyonnais, will pay a premium over the price of shares offered to the public. About 50 per cent of the capital will be floated on the stock market, while the state will retain 10 per cent and Lyonnais employees will be offered up to 5 per cent at preferential LEITHS.

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PHILIP COGGAN **GLOBAL INVESTOR** share buy-back too far

Motherhood. Apple pie. Share buy-backs. All of these are universally acknowledged to be good things.

But might the passion for share buy-backs have been carried too far? The main argument for them is simple: if companies have too much cash, and not enough profitable investment opportunities, they should return the capital to shareholders who can invest it elsewhere. Not only does this make economic sense, it is good practice in the world of corporate governance.

But this is not happening. In the UK, there was a net return of more than £30bn (\$48.3bn) of cash to shareholders last year (through buy-backs and cash takeovers), while in the US the figure was \$158bn. It would seem there are not enough new and attractive projects.

That does seem a little difficult to square with the high valuations placed on stock markets on both sides of the Atlantic which might appear to suggest that the outlook for the corporate sector is rosy.

But it is possible to overcome that point. For a start, high valuations on the stock market owe much to low inflation, bond yields and short term rates; secondly, companies are in fact continuing to invest money. In the US, according to John Youngdahl of Goldman Sachs, real business fixed investment purchases during the first three quarters of 1998 were 73.5 per cent above those in 1991. The Fed estimates that International Business

the manufacturing capital stock is growing at twice the historical rate. In the UK, total business investment increased by 11 per cent last year.

That expansion is being financed by debt, not equity. US companies are borrowing money to invest and to buy back shares. The net addition to non-financial corporate credit market liabilities in the rear to September was \$359.3bn. That represents the highest absolute figure on record and a 72 per cent increase on the previous 2 month period Corporate finance theory is

on the companies' side. With each earning so little, and with debt tax-deductible, buy-backs mprove both old-fashioned earnings per share measures yardsticks such as economic value added.

However, profit growth in the US and the UK is clearly declining. Profits for the S&P 500 companies grew by only 0.4 per cent in 1998, according to information company IBES international, and even with economic growth still strong, are expected to grow by only 5 per cent this year. Corporate managements are

therefore deciding to replace equity with debt at a time when their profitability is declining and when share price valuations are at historical highs. Never mind what theory states, common sense suggests there is something wrong. Old UK market hands may

remember a company called

newsletter and communication group. In February 1989, the company had the bright idea of buying back 40 per cent of its share capital at 140p per share; weighed down by debt. the company struggled in the face of high UK rates. The shares were suspended at 314p in September and eventually relisted, after restructuring, at

Communications, a financial

4½p. This cautionary tale might remind the odd director that gearing can occasionally be a four letter word. At the noment, however, executives have every interest in exaggerating their company's

Corporate managements are

risk profile.

clearly being judged these days on the basis of shareholder value, and all too often this translates merely into the short term appreciation of the share price Executives have a heavy personal motivation to emphasise short term gain, in the form of share option

This adds up to a recipe for disaster. But who will know when to call a halt to the buy-back craze? It hardly seems likely that investment banks will take a self-denying ordinance to turn down the business. And each successive buy-back only forces institutional investors to chase

the market higher. One final thought: if companies do become risk averse, and cut back on their buy-backs, will investors have to start worrying about dividends again?

The lowly-rated UK engineering sector is attracting interest from potential predators across the Atlantic. Michael Peel reports

company was about to be "We didn't do the deals," he said. "And the expression here is 'dine or be dinner'."

It is a common sentiment among engineers these days. No conversation with them is complete without a dark reference to the slide rules that US bankers have for some time been running over the lowly-rated UK sec-

Some observers argue that the analysis is already close to producing results. They think a number of US companies have prepared takeover bids that will be triggered if their intended targets report reasonable results this month.

As one corporate financier puts it: "The US guys are looking at the companies and thinking, "They look cheap but if the business is going away then they don't look too hot. So we will sit out for the next set of figures before we think about doing

Early indications are that the performance hurdle will

taken over by a US group. global economic slowdown.

The good results have lent of about 13.5, a quarter less than its US counterpart.

value of UK engineers since June, when investors began to worry about the effects of strength of the pound. The engineering and engineering vehicles sectors, which had a mere 4.1 per cent of the FTSE All-Share. In the past year, the engineering sector

Against that background.

It was a chastened engi- weeks BBA, IMI and TI unsuccessful approaches for neering company executive Group have all turned in Berisford, the kitchens and who explained why his results that show trading kitchen equipment group, has held up despite the and Weir Group, the Glasgow-based pumpmaker. Some bankers think US engiweight to the argument that neers have been held back UK engineering groups offer by a reluctance to pay the some rare bargains to preda- large premiums that have tors. The sector trades on a characterised deals to date. multiple of historic earnings At the extreme, as in the acquisition of Adwest by Dura Automotive Systems. That divergence reflects the US suitor can find itself the dramatic fall in the paying a premium of more

than 100 per cent. Others point to a reluctance to spend a chunk of a drop in demand and the time in the UK arranging deals with companies that dards. US groups know, too, total capitalisation of that most boards are likely £72.5bm nine months ago, to put up a fight as long as now weigh in at about the sector is stuck at historic £58.8bn and account for a lows. As one corporate financier says: "They [US groups] really have been looking a lot but they never actually has underperformed the UK make the approach once stock market by about 18 per they discover these deals are very hard to do."

The most vulnerable IIK it seems surprising that groups are generally held to there been relatively few be those with market capitakeover attempts so far. talisations of between £100m Apart from the bidding war and £1bn. The larger confor LucasVarity, the most cerns tend to be more divernotable events have been sified, meaning they are less



likely to offer a good fit with

a potential predator. Bigger outfits such as BBA Group and Smiths Industries also enjoy some protection from their ratings, which tend to be higher than those of the smaller engineers. Smiths would not be a big bite for a huge American corporation," says someone close to the group. "But it would be an expensive bite." Those groups that are less

favoured by the market are

having to look at alternative

methods of shoring up their positions. Adopting the "eat or be eaten" principle, medium-sized concerns such as Weir, Berisford and TT Group have indicated that they intend to grow by making sizeable acquisitions. In a variation on this

theme. Ti last week announced that it was teaming up with Kohlberg Kravis Roberts, the US investment group, to help it identify bid targets. KKR paid £94.4m for raising its holding to 9.9 per

cent. It seems unlikely that KKR is the only US venture capitalist investigating the UK engineering sector. "There is no doubt that the US buy-out funds are here," says one banker. "But they face significant costs in terms of lawyers and accountants. They are quite happy to have a look but they need to know they have got a good chance."

The potential buyers may be cautious at present, but there is enough surreptitious activity to create a sense that a transatlantic swell may be about to engulf the UK engineering sector. A number of US value investors have already made the crossing, attracted in part by dividend yields that are on average more than twice those offered by US rivals.

Many think the UK report ing season might serve as the trigger to convert the undoubted US corporate interest into action. As one banker puts it: "Your classic piece of merger and acquisition advice is: if there are results coming out you have to look at them before making your move. I would expect that things will pick

raising round, says the com-

pany was born out of the

inability of existing software

to cope with the demands

put on servers by the inter-

net. He and Mr Reeves, 25,

who also has a 42 per cent

stake, were running a web

site in their spare time. After

writing software to tackle

the problems, they posted it

The interest they received

convinced them to start

Zeus. Their partners now

free on the internet.

Tomkins

Greg Hutchings, Tomkins chairman, probably - if Share price (pence) secretly - still sees it as an admission of defeat. But a chunky share buy-back is surely the right thing for his company. The company has spent more than £700m (\$1.13bn) on acquisitions in 1998, some 2200m on capital expenditure and still the balance sheet is woefully undergeared. The company's average net debt in the first half was about £125m, compared to a stock market capitalisation of £2.6hn. The odd thing

is that having finally conceded that buy-backs had a role to play in tightening up the balance sheet, the company should have been so half-hearted in practice: a mere £140m or just over 5 per cent of the equity - has been bought back this year. Yet the shares can hardly have looked pricey. A buy-back should not be seen as a poor man's alternative to a glamorous acquisition. Investors tend to back smart deals.

Cylical/non-cylical stocks

Guess what? Dying is a cyclical event; being ill, apparently, is not. This is one oddity to emerge from the reshuffle in the FTSE classification system, which will group services (such as pharmaceuticals and funeral directors) and consumer

goods according to how cyclical their earnings are.

Quirks aside, how useful will the exercise be? It may have some merit if it helps investors pick their way through a sector like retail, which spans defensive stocks like supermarkets and cyclical plays such as high-street furniture stores. But relying too heavily on the classification risks oversimplifying things. A vertically integrated industry like brewers (moving into pubs/restaurants) has both cyclical and non-cyclical characteristics. Furthermore, it is not clear how a relatively new industry like mobile phones performs in a bad recession.

But the big risk with the new FTSE classification is that investors fail to look behind the cyclical tag and rush for all exits at the first sign of an economic downturn. Like Tolstoy's unhappy families, cyclical industries are cyclical in their own way. Some are hit later than others by recession. Furthermore, economic cycles differ. A sector hit in one recession may not get so clobbered next time. And sirines for instance are not just exposed to the UK economy. Investors should not hope stockpicking will get any easier.

Ind. Newspapers | Xaar makes in SA offer

Independent Newspapers. the media and communications group, is offering R26.50 a share to South African minority holders of Independent Newspapers Holdings, in a R405m (\$65m) bid for the 24 per cent it does not already own.

If the offer - a 43 per cent premium on the current share price of R18.50 - is accepted, it will bring the value of the group's investment in the country to more | International, its immediate

Swedish buy

Xaar, the Cambridge-based ink jet printing technology group, is to acquire Modular Ink Technology, Stockholm, for \$5.5m.

At the same time. MIT'S largest customer, Olympus Optical, is to subscribe £1.2m for 2.22m new ordinary shares in Xaar, giving Olympus a 4.1 per cent stake in

the enlarged group. The vendor is Pelikan Producktions and Nu-Kote holding company.

Boost for Brammer in TIS calibration deal

Brammer, the industrial services group, is today expected to announce a £66m boost to its electronic equipment rental and management business - part of its efforts to increase its outsourcing activities.

The group, which announces its annual results tomorrow, is buying a controlling interest in TIS, the instrumentation services arm of Thomson CSF of France, for up to FFr7.5m (2770,000). The addition to Brammer's Livingstone Services business will make the group Europe's largest independent provider of calibration

1998 financial year.

Millions of € Millions of FRF

Operating Income

Profit per share "

Net Income

management services. The it a £66m five-year contract to calibrate and maintain electronic test and measurement equipment for Thomson CSF throughout

Brammer, which has distribution division hit by the economic slowdown in its manufacturing customer base, has been trying to increase the highermargin Livingstone busi-£16m flve-year contract Dutch group.

Brammer is keen to identify groups holding large come from Livingstone are inventories of test and expected to be exceeded.

The Board of Directors met under the

March 10, 1999 and reviewed the final

chairmanship of Mr. Francis Mer on

consolidated accounts of the Group

9,575

52,012

353 2,318

557

Long Specialty Steels (Unimetal and its subsidiaries,

Other than the deconsolidation of Vallourec and Forcast,

fully consolidated until June 30, 1997, the principal

changes in the Group's scope of consolidation relate to the

full consolidation of Fabrique de Fer de Charleroi-Fafe

(Belgium) on January 1, 1998 and La Magona d'Italia (Italy)

and Thainox (Thailand) in the second half of the year, and

to the deconsolidation of Valdunes and UGO (France) for

the year ended December 31, 1998. Acesita/CST (Brazil)

and Arvedi (Italy) were consolidated using the equity

The consolidated accounts for 1998 show net income of

Consolidated Net Sales in 1998 reached € 10,949 million

compared to € 10,976 in 1997, with contributions from

Flat Carbon Steels (56%), Stainless Steel and Alloys (22%)

In 1998, 32% of net sales were realized in France, 46% in

other European countries, 12% in the United States and

10% In the rest of the world. Asia represents 2.5% of total

Operating Income was € 415 million, i.e. 3.8% of sales compared to € 546 million in 1997 (5% of sales). Flat

Carbon Steels accounted for +6.9%, Stainless Steels and

Alloys for -4% and Specialty Steels for +4%. The continued deterioration of sales prices for Stainless Steels paired with

a destocking movement during the last quarter of the year

resulted in a 24% decrease in operating income compared

Net Income of € 335 million includes the effect of the

application of accounting standard IAS 12, mandatory

since the beginning of 1998, resulting in tax profit being

shown for € 453 million during the period, and the

application of accounting standard IAS 36, mandatory as

of 1999 but applied in advance, resulting in the

depreciation of tangible and intangible assets totaling

€ 315 million. This depreciation of assets concerns J&L

(€ 38 million), Thainox (€ 58 million), Unimétal and its

Ascométal and its subsidiaries, Sogérail, ...)

** excludes treesury shares at December 31, 1998.

method during the fourth quarter of 1998.

and Specialty Steels (23%).

to the previous period.

and approved the accounts of Usinor, the Group's parent company, for the

Discontinue Activities *

1,374

9,012

- 182

1998 Results

1997

10,976

313 2,055

41.25

Total 1998

70,549

71,824

415

335 2,198

#E 1.45

FRF 9.50 | FRF 8.45

Millions of €

Net debt

Net debt/equity

Net cash provided by operations

activity toward the end of the year.

policy for the allocation of resources.

industrial investments

Total shareholders' equity

including minority interest

measuring equipment and acquisition will bring with encourage them to outsource the work. David Hollywood, chief executive of Livingstone, says the group can increase quality and customer service while reducing costs. It can provide management, purseen its industrial parts chase, maintenance and disposal services.

Brammer will buy the remaining stake in TIS for a maximum of FFr7.5m between March 2000 and March 2001. Analysts ness. Last year it won a expect Brammer to announce pre-tax profits of with KPN Telecom, the about 223m - and estimates that £7.5m of that, on £50m turnover, will

Excluding the effects of these accounting standards, the

Group's net income would have reached € 197 million.

Net cash provided by operations amounted to € 1,005

million compared to € 897 million in 1997. This Improve-

ment is mainly due to a decrease in working capital

requirements itself due to a notable decrease in business

Industrial investments of € 620 million are in line with

the level of accounting depreciations and the Group's

Net Debt at December 31, 1998 amounted to € 2.07

billion compared to € 0.89 billion at December 31, 1997.

The increase of net debt reflects strong external growth

during the entire period. The net debt/equity ratio was

0.46 compared to 0.21 at December 31, 1997.

Internet invention pays off for Cambridge pair

Two graduates from Cambridge, England who started their internet business in a bedroom four years ago, are in talks with US venture capitalists on the sale of a stake that will value the company at about £30m.

They rejected a much higher offer from a large US computer group, opting to stay independent with a view to a lucrative flotation in the next year or two.

Adam Twiss and Damien Reeves founded Zeus in 1995 while still at college. It produces software enabling companies to develop their web sites and has signed up some of the biggest names in

1997

897 5,813

629

4,305

5,829

0.21

28,240

1,005 6,591

620

4,555

29.882

2,075 13,612

0.46

the computing world as part-

Mr Twiss, 23, said the eight-strong company had received numerous overtures from US companies. One US computer group is understood to have offered to buy the company for more than 230m. But "It is not in our game plan to be part of another company. We believe we can grow to dominate the market for software for high-end servers." Zeus's deal with venture

to be concluded shortly, is the latest in a wave of US money targeting young British internet companies. Mr Twiss, whose 42 per cent stake would be worth

Net income

€ 335 million

(FRF 2.2 billion)

Shareholders'

include Silicon Graphics and capitalists, which is expected Hewlett Packard, two of the biggest computer manufacturers in the world. Among its customers are Cable & Wireless and Demon Inter-

LIQUIBAER

Notice is Hereby Given of the Annual General Meeting

to be held at the Britannie AB Room, Hystt Regency Hotel, Grand Cayman, Cayman Islands, on the 29" day of March, 1999 at 9.30 a.m.

AGENDA

I. To receive and consider and, if thought lit, adopt the accounts presented by the Directors for the year ended 31st December, 1998 and the reports of the Directors and Auditors.

to fix the Auditors' remuneration.

3. To approve the appointment of PriceweterhouseCoopers as Auditors and authorize the Directors

By order of the Board

LIQUIBAER Julius Baer U.S. Doller Fund Limited, P.O. Box 1100, Grand Cayman, Cayman islands.....

A shareholder holding registered shares is entitled to attend, vote and appoint one or more proxies to attend and vote instead of him. A proxy need not be a strareholder of the company,

A shareholder holding bearer shares is entitled to attend and vote. Exercise of these rights in respect of bearer shares will be recognized only on presentation at the Meeting of the bearer certificate or satisfactory evidence of the holding. Such evidence may be obtained by depositing the certificate with the Agent listed below against written receipt, which must be produced at the Meeting.

Copies of the Annual Report including Audited Accounts are available for inspection and may be obtained at the registered office of the Company and from the Agent listed below. There are no service contracts in existence between the Company and any of its Directors and none

Participating shares are listed on the London Stock Exchange and particulars of the Company are

Sth March, 1999

SECRETARY AND REGISTRAR: Julius Baer Bank and Trust Comp. Ltd., Kirk House, P.O. Box 1100, Grand Cayman, Cayman Islands AGENT: Bank Julius Baar & Co. Ltd., Bevis Marks House, Bevis Marks, London EC3A 7NE, U.K.

Regulated by the SFA

LIQUIBAER JULIUS BAER U.S. DOLLAR FUND LIMITED GRAND CAYMAN A company incorporated in the Cayman Islands

Julius Bär

Prospects

End-user demand has remained steady and, although the increase in orders for flat carbon steels and stainless steels has not yet resulted in an increase in sales prices during the first quarter of 1999, such increase could be the sign of a trend of restocking. With respect to Stainless Steels, prices have increased since the end of the year, particularly in Asia. For Flat Carbon Steels, a return to normal inventory levels and a halt in declining trends for basic products have been noted. Price increases have been announced for the second quarter in this sector in Europe.

Despite strong pressure on prices, annual contracts have been renegociated close to the previous year average. This was mainly due to a sustained demand from large clients in the automotive and white goods industry for high technical content products which are concerned by

After the integration of Cockerill Sambre and the conclusion of the sale of the Long Specialty Products activities, the net debt/equity ratio should be approximately 0.50 by June 30th, 1999.

The acquisition of 53,77% of Cockerill Sambre (Belgium) has been finalized February 9, 1999. The tender offer allowing Usinor to increase its participation to 75% is currently under way. This acquisition confirms the Usinor Group strategy aiming at developping its share in markets of high value-added products. Net consolidated sales of the COCKERILL Sambre Group reached € 5,270 million in 1998.

The Board will propose to the shareholders at the Annual General Meeting, the payment of a net dividend on July 1, 1999 of € 0.48. This corresponds to a pay out of 33%.







Floating Rate Notes due 1999 In accordance with the Terms and ons of the Notes, notice is hereby given that for the three months from 10th March 1999 ro 10th June 1999 the Notes will bear interest at 5.55453% per

£10,000 Note will be £140,00 and per £100,000 Note will be £1.400.05 on 10th June 1999.

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GE chief **建建筑** (400年)

CONT

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COMPANIES & FINANCE

BNP move sparks fears of job losses

By Robert Graham in Paris

Unions at Paribas and Société Générale say up to 6,000 jobs are at risk if the hostile hid for the two banks by Banque Nationale de Paris were to succeed.

made over the weekend in preparation for a meeting this morning with Daniel Bouton, the head of SocGen. The meeting, called at the request of Mr Bouton, was retirement.

seen by union officials as an effort to win the support of employees to help block last week's bold BNP bid which would unravel a proposed friendly merger between Paribas and SocGen.

Section Library Section 18

Bouton realises we are his best allies," said Michel Marchet, leader of the CGT, one of the three main unions at SocGen that opposes the

Staff, including management, own more than 10 per cent of SocGen, the largest single block of shares. At Paribas the proportion. according to the unions, is only marginally smaller at 6 per cent. In both banks the employees have a representative on the board, although the latter's presence has carried little weight until now. Union officials say their

By Richard Waters in New York

Jack Welch, who will retire

- as chairman of General Elec-

in his pay, to \$10m.

on Friday.

his interests in GE stock,

including through options.

are worth about \$720m based

on GE's share price, which

hit a closing record of \$107%

on Friday, a \$100 investment

La bang.

№ \$46m incentive

tric next year, has been company said it had

handed a \$46m incentive to awarded Mr Weich another

· make sure he goes out with large lump of options and

packages of any American cash in all of his latest

already made him wealthy: price of \$79.25 a share.

with a 25 per cent increase - end of 2000.

BNP is the political sensitivtty of job losses in France. Calculations made by both the leftist CGT and the more moderate CFDT point to 6,000 jobs being at risk.

Such a high level of redundancies, they insist, would These estimates were not be absorbed by the accelerated rate of natural wastage expected in two years' time as the large number of personnel hired in the late 1960s and early 1970s take

> The combined workforce of Paribas and SocGen in and outside Prance totals 60,000. The only segment considered capable of being swayed to back the alliance with BNP are staff in the various levels of manage-

Paribas denied press reports that some of its staff on the management side had on Friday come out in favour of the three-way merger proposed by BNP. At BNP itself, only the union representing manage-

ment has come out in favour of the offensive against Paribas-SocGen. Unions in both the two target banks and at BNP are in close touch as they fear there could be job cuts

all-round despite assurances from Michel Péberesu, head main card in trying to block of BNP. GE chief given

Standard & Poor's 500 index.

stake, estimated at \$500m. Korea's Fair Trade Com-To make sure he has "a strong incentive" to keep

adding to GE's value, the industry. restricted stock, according to He was also paid one of the proxy statement. Mr the biggest salary and bonus Welch will be allowed to chief executive last year, award when he retires at the a process that is benefiting

Mr Welch's 18 years at the 300,000 units of restricted expense of smaller ones. helm of the US manufacture stock and options over LG Caltex has a 32 per ing and services group have 500,000 shares at an exercise cent market share and Hyundal Oil. which is Besides his salary and acquiring the oil refining

bonus, the GE chairman also business of Hanwha Energy. exercised \$46.5m worth of has 20 per cent.

stock options last year. In a report explaining the Oil would mark another step reasons for Mr Welch's high | in the dismantlement of the They have also made earnings. GE's compensation many GE shareholders rich. committee, made up of out-According to the company's side directors, paid tribute to latest proxy statement, filed his "aggressive leadership". as well as his "vision and in GE when Mr Welch took determination" in boosting over would now be worth the company's stock market \$4,675 - 21/4 times as much as value by more than \$300bn operations.

a similar investment in the during his tenure.

CONTRACTS & TENDERS

The Democratic Republic of Congo Ministry of Finance and Budget

TENDER FOR THE SELECTION OF A PRE-SHIPMENT INSPECTION COMPANY

The Government of the Democratic Republic of Congo invites sealed proposals from international reputable companies for the provision for PSI services covering imports. Interested companies will be required to submit their bid in one original and five copies to the Conseil des Adjudications du

Gouvernment C/o Direction des Marchés Publics; avenue de l'Ouganda no.4204, Gombe, Kinshasa in two separate sealed envelopes:

- Envelope "A" will contain technical data to be used for pre-qualification

Envelope "B" will contain price proposals,

Tenders must be received at the above address before 5 May 1999 at 10:00 am, when public opening will take place.

Proposals should remain valid up to 5 July 1999. They must contain a Bid bond worth US Dollars \$50,000 or its equivalent in convertible currency, established in the name of the Ministry of Finance and Budget. The Bid bond is liable to forfeiture, should the Bidder chose to withdraw his/her bid between the time of the public bids opening and the expiry of the validity period, or fail to accept and sign the contract established in terms with his/her proposal by the Ministry of Finance and Budget.

Interested Companies can obtain a copy of the Request for Proposals. through a formal request on Company stationery signed by an authorized representative, from:

Conseil des Adjudications du Gouvernement C/o Direction des Marchés Publics at the above address, upon payment of a nonrefundable amount equivalent to US Dollars \$10,000, payable in Congolese Francs into the account of the Accountant, avenue des Huileries no. 4404, (Cabinet du Ministre des Postes, Téléphones et Télécommunications), Gombe, Kinshasa

For further information please contact the Office Congolais de Contrôle, 98 Av. du Port Kinshasa/Gombe, Fax: 243-1221974.

DECISION SEEN AS SIGN ZIMMERMAN THINKS EQUITIES HAVE PEAKED

Oil merger MLM co-head opts for part cash

By Jane Martinson, Investment Correspondent

Stephen Zimmerman, cohead

By John Burton in Sepul of Merrill Lynch Mercury, is to keep half of a £7m A planned merger between (\$11.43m) windfall from the Ssangyong Oil and SK Corp sale of Mercury Asset Manto create South Korea's bigagement, the UK's leading gest oil refiner appeared to pension-fund manager, to be under threat yesterday Merrill Lynch of the US in after Ssangyong Oil's largest shareholder said it had not

The decision to invest 63.5m in unguaranteed float-Aramco, the Saudi oil proing-rate notes, a cash equivaducer that has a 35 per cent lent, is disclosed in the prostake in Ssangyong Oil, said spectus for an investment it would support the sale to trust launched earlier this SK Corp only "if its concerns

resolved". Although Aramco did not say what its "serious" con-cerns were, analysis believe it might be worried about the future of Ssangyong Oil under SK's management. Aramco supplies crude oil to Ssangyong Oil, but otherwise does not normally exercise management rights in the company.

satisfactorily

Ssangyong

could be

in doubt

yet approved the deal.

can

Third-ranked Ssangyong Oil is considered Korea's best-managed oil refiner, with net profits of Won271.4bn (\$329m) on sales of Won5,970bn last year. In contrast, SK Corp reported earnings of only Won115bn despite its status as Korea's the group will be too small way be limited, would be offleading oil refiner with sales of Won11,000bn. The deal would also add to SK Corp's debt of Won7,900bn, more than twice its equity.

The Sangyong group said last week it would sell its controlling 28.4 per cent stake in Ssangyong Oil to the SK group to help pay large debts. But the deal hinges on the outcome of talks on a price for the

mission said it would review the sale since it would give SK Corp the ability to set domestic oil prices, with control of nearly half of the nation's oil refining

The planned merger would represent further consolidation among Korean refiners, which are suffering from overcapacity, by reducing the number of competitors to three from five a year ago in Korea's largest conglomer-The incentives include ates, or chaebol, at the

The disposal of Ssangyong Ssangyong group, once Korea's sixth largest chaebol. Debts amassed from an ill-fated venture into car manufacturing have forced it to sell most of the businesses, including its car, paper and financial

the loan note alternative for defer capital gains tax liabili- when it was bought for hold about £307m of Merrill investors "pervous of pres- hies.

fund managers have taken a bearish stance on the level of the world's stock markets

ent markets".

in recent years. The new trust - Mercury Asset Allocator - is designed to help former shareholders of the company gain expomonth. The new trust offers sure to equity markets and

Mr Zimmerman's decision most senior asset managers sign that he believes the the shares of the new trust, world's equity markets have between half and 100 per peaked. It comes after a cent of which will be number of the UK's leading invested in world stock markets. Instead, half of his money will be invested this

> teed by Merrill Lynch. deputy chairman of Mercury

123.1bn by Merrill Lynch in Lynch loan notes. The trust
Mr Zmmerman, one of the 1997, is believed to have is particularly attractive to to keep so much money in in the UK, could have cho- for his Mercury holding than of the capital gains tax cash is likely to be seen as a sen to put all of his £7m in the £7m disclosed in the pro-implications. spectus.

> However, he could also have chosen to keep all the money in loan notes guaran-

though it has suffered from or use leverage.

performance problems. cury clients and staff who more widely.

received considerably more private individuals because

The mandate of the new It is unclear how the rest trust is to invest "actively". of this money, and any other with big shifts in asset allopersonal wealth, is invested. cation across markets and Mercury as a whole is asset types. Although it aims understood not to have to provide an absolute level taken an unusually bearish of return, like a hedge fund, stance over the past year, it will not be able to go short

The launch closes to initial The new trust has been investors on March 24, after Mr Zimmerman, who was offered to some 5,000 Mer- which it will be marketed

KPN chairman to step down next year

The outlook for KPN became more uncertain over the weekend when the privatised Dutch telecommunications group said Wim Dik report 1998 results that will would step down next year after a decade as chairman.

The company made no mention of a successor, and the news may fuel expectations that KPN will at some point be put up for sale. Mr Dik, 60, has said he thinks

to compete in a deregulated and globalised market, while arguing that it could justify staying independent for at least five more years.

On Wednesday KPN is to show the impact of competition on its former monopoly position. The company said in January it had achieved 20 per cent growth in call volumes, but at lower prices.

It indicated that earnings growth, which would any-

set by a Fl 800m (€363m, \$397m) provision for job cuts. Analysts expect net profits to fall by between a fifth and a quarter from the F1 2.69bn for 1998.

Shares in KPN ended last week at €41.70, or 23 per cent below their peak for the past year, valuing the company, in which the Dutch government still holds a 45 per cent stake, at nearly €20bn.

KPN last year spun off TNT Post Group, the former mail and express delivery one survey, two-thirds of its eastern Europe operation.

listed company. The move ing making that step. was intended to present a clearer profile to investors as recently from mobile telea telecoms operator. Since phony - although a British then, however, its shares Telecommunications joint then, however, its shares have oscillated amid rulings

Number portability comes to the Netherlands next month, allowing customers Czech Republic, Slovakia to switch provider with less and Hungary, which would

by a Dutch industry regula-

tor seeking to ensure access

to the market for new rivals.

division, into a separate business users are consider-

Growth at KPN has come venture is among four rivals driving prices down - and

from involvements abroad. Last month Mr Dik said he wanted to move to majority control at its holdings in the inconvenience. According to allow creation of a unified

Notice of

Annual General Meeting of Skandia

Shareholders of SKANDIA INSURANCE COMPANY LTD (publi) are hereby summened to the Annual General Meeting on Thursday, April 8, 1999, at 3.00 p.m. (Swedish time). Location: The Congress Hall, Folicats Hus, Barnhusgatan 12-14, Stockholm, Sweden.

NOTIFICATION OF ATTENDANCE, ETC.

Shareholders intending to amend the Annual General Meeting, must he recorded as shareholders in the Shareholders Register issued by the

Swedish Securities Register Centre (Värdepapperscentralen VPC AB) as at Monday, March 29, 1999, and must

· notify the Company of their intention to attend the Meeting not later than 4.30 p.m. (Swedish time) on Tuesday, April 6, 1999, Notification of intent to attend the Meeting should be made in writing to Skandia. Comorate Law, "AGM", SE-103 50 Stockholm, Sweden, by fax Int +46-4-788 16 80, by telephone Int +46-8-788 32 62 or via the Internet at http://www.skandia.se/agm. Please note that if voting by proxy, power of attorney must be sent in original and may not be sent by fax or via the internet.

Shareholders whose shares are held in trust by a bank or private broker must temperately positive their shapes in their own pages, in the Shapeholders Register to be able to attend the Annual General Meeting. Such and his completed and have the

AGENDA AND PROPOSED DECISIONS

- 1. Opening of the Meeting
- 2. Election of a chairman to preside over the Moeting Nontinaring Committee Recommendation: Mr. Sven Stiderheig, Chairman of the Board.
- 3. Address by Mr. Lans-Eric Petersson, President and CEO of Standta 4. Election of a person to check and sign the Minutes together with
- the Chairman 5. Verification of the voting list
- 6. Decision as to whether the Meeting has been properly called 7. Presentation of the Annual Accounts and the Consolidated Accounts
- 8. Presentation of the Auditors' Report and the Consolidated Auditors' Report for 1998
- 9. Approval of the Profit and Loss Account and Balance Sheet, and the Consolicated Profit and Loss Account and Consolicated Balance Sheet for 1998

10. Decision on appropriation of the Company's profit in accordance with the adopted Balance Sheet, and determination of the record date for payment of a dividend

Bound recommendation: Of the amount available for distribution by the Annual General Meeting, MSEK 2,125 (the balance of MSEK 1,891 brought forward from 1997 and the year's profit of MSEK 255, reduced by an allocation to the fund for unrealized gains of MSEK 21), the Board of Directors recommends that a dividend of SEK 0.90 per share be paid, totalling MSEK 461, and that MSEK 1,664 he carried forward. The record date shall be April 15, 1999.

11. Decision as to whether to discharge the Directors and the President from liability for their administration during the 1998 financial year Recommendation. The Company's auditors recommend that they he so discharged.

12. Decision un Directors' fees

Nominating Committee Recommen Chairman SEK 600,000.

of which SEK 225,000 shall be used to purchase issued Standia shares, at market price, as soon as practicable after the Annual General Meeting (unchanged)

 Vice Chairman SEK 350,000, of which SEK 130,000 shall be used to purchase issued Skandia shares, at market price, as soon as practicable after the Annual General Meeting (unchanged)

 Director SEK 200,000, of which SEK 75,000 shall be used to purchase issued Skandia shares, at market price, as soon as practicable after the Annual General Meeting (unchanged)

The requirement concerning the purchase of Skandiz shares shall not apply in respect of directors who have been appointed as policy-

13. Proposed amendments to the Company's Articles of Association Nominating Committee and Board Recommendation: That Article 7, paragraph 2, of the Company's Articles of Association be amended, entailing that the number of directors elected by the Annual General Meeting shall be not less than five and not more than eight. The current stipulation is that the number of elected directors shall be not less than six and not more than nine.

The complete wording of the recommended amendment to the Articles of Association will be sent to all shareholders who are directly registered as such with the Swedish Securities Register Centre. The text can also be obtained from: Skandia, Corporate Law, SE-103 50 Stockholm, Sweden, telephone Int + 46-8-788 32 62, fax lot + 46-8-788 16 80.

14. Decision on the number of directors to be elected by the shareholders Nominating Committee Recommendation: A reduction from seven to five. 15. Election of directors

(The term of office, which is two years according to the Articles of Association, expires for Mr. Sven Societherg, Mr. Bengt Braun, Mr. Kurth Augustson and Mr. Lars-Eric Petersson.) Noninatine Committee Recommendation.

Re-election of

 Mr. Bengt Braun • Mr. Lars-Eric Peturoson. both for the period through the 2001 Annual General Meeting. The Swedish Consumer Astency and the Stockholm Chamber of Commerce - who have the duty to appoint the policyholders' representatives on the Skandla Buard - have appointed.

Professor Book Floduren (se-electron) and Mr. Melker Schöding

(new election) as the policyholders' representatives, with effect from the 1999 Annual General Meeting.

Iti. Decision on auditors' fees Nominating Committee Recommendation: Compensation as

agreed when procuring the services.

17. Election of studeors Nominating Committee Recommendation: Re-election of Mr. Hans Karlsson, Authorized Public Accountant, KPMG, and new election of Mr. Jan Hipperson, Authorized Public Accountant,

Ernsi & Young.

18. Election of Alternate Auditors Nominating Committee Recommendation, Re-election of Mr. Olof Coderberg, Authorized Public Accountant, Ernst & Young, and Mr. Anders Holm, Authorized Public Accountant, KPMG.

19. Election of members of the Nominating Committee for the 2000. (According to a decision by the 1995 Annual General Meeting, the Nominating Committee shall consist of six members; three representatives of the major shareholders, one representative of the minorshareholders, one representative of the policyholders of Skandla Life.

insurance Company Ltd., to be appointed by the Stockholm Chamber of Commerce, and the Chairman of the Board.) Recommendation. Re-election of Mr. Tor Marthin, Mr. Carl-Olof By and Mr. Im Vilnanen as representatives of the major shareholders (nominated by AMF Pension, Industrivarien and the Pohjala group, respectively) and Mr. Kjell Gunnarson as representative of the minor shareholders (nominated by the Skandia Shareholders' Association). In addition, Mr. Bengt Oldmark, appointed by the Stockholm Chamber of Commerce as representative of the policyholders of Skandia Life Insurance Company Ltd, as well as Skandig's Chairman

shall be members of the Nominating Committee for the 2000 Annual General Meeting. 20. Information on the combination of Skandla's and Storebrand's

property & casualty insurance operations 21. Questions from shareholders

22. Adjournment of the Annual General Meeting

NIVOSKO

The Beard of Directors recommends that a dividend of SEK 0.90 pershare he paid to the shareholders, and that the record date for payment of the dividend shall be April 13, 1999. If this recommendation is adopted, dividends are expected to be distributed from the Swedish Securities Register Centre on April 20, 1999.

Meeting into English.

The 1998 Annual Report can be obtained from: Skandia, SF-103 50 Stockholm, Sweden, telephone Int + 46-8-788 10 un, Exx Int + 46-8-788 28 38.

INTERPRETATION OF THE PROCEEDINGS INTO ENGLISH For the convenience of non-Swedish speaking shareholders, there will be simultaneous interpretation of the proceedings of the Annual General

SWEDISH-SPEAKING SHAPENOLDERS

This summons to attend the Annual General Meeting of Skandta Insurance Company Ltd (publ), to be held on Thursday, April K, 1999 at 3.00 p.m. in the Congress Hall, Folkers Hus, Barnhusgatan 12-14, Stockholm, Sweden, can also be obtained in Swedish. Please contact Skandia, Corporate Law, "AGM", SE-103-50 Stockholm, Sweden, telephone for +46-8-788 32 62, fax for +46-8-788 16 80.

A welcome is extended to the shareholders to attend the Annual General Meeting.

Stockholm, March 1994

The Board of Directors

Skandia

idin 91

Notice to Noteholders

EUROPEAN INVESTMENT BANK LUF 2,000,000,000

5.25 per cent. EURO-Fungible Notes due 15 April, 2004

ISIN XS0081314907

not recoversion, renumentanguog and recovered state; and comprise and ns ("Conditions") of the Note Issue, so that with effect from 15 April, 1990

each Note of LUF 50,000 representing an interest in the Global Note on the Red deemed to be converted into EURO 1,279.47;

2 an arount of EURO 80.44 shall be pard on 15 April, 1995 to the holder in respect of each such Note of LUF \$8,000

in addition to the payment of interest, an amount of EURO 3.47 shall be paid on 15 April, 1999 to the helder in respect of each such Note of LUF 24,000 so that, for such Such Note, the amount of each EURO-denominated Note tile "Original Note" ishall

the new demonstrations of the Original Notes (the "New Notes") shall be EURO 4, EURO 14,000, EURO 100,000 and EURO 1,000,000 an

any reference to business days in the Conditions shall be deemed to refer to a day on which the Trans-European Av Real-line Gross settlement Express Transfer system ("TARGET") is open;

the Note Issue shall be con-adabated with note instess
5.25 per cent. EURO-Fungible Notes due 15 April, 2004,
ISIN X5004387374, X500889688, X5007357892 and DE0101967306 tthe "Other Issues" and together with the Note Issue the "Comulidated I

minal amount of Consolidated Issue the aggregate normal amount of the Convolidated Issue shall be of a maximum amount of EURO 2,141,400,716; the EIB shall incre replacement Global Notes for the Consolidated Levic in exchange for the Global Note of the Note Issue.

9 the ISIN number for the Consolidated Jesus shall be XS0093511850;

Note insponsary

10 to the extent the Notes are held in Cedelbank or Morgan Guaranty Trust Company of Now York, Brassels Office, as spetthe Euroclear System, the compan depository shall be Paribas Luxembourg, to the extent the Notes are held in Di
Borse Clearing, the depository shall be Deutsche Borse Clearing.

Stock Exchange Listing

11 the Consolidated Issue shall be latted on the Luxembourg Stock Exchange, without prejudice to a listing on one or more other Stock Exchanges in the European Community;

olidated I some shall be deared through Cedefhank, Morgan Guaranty Trust Company of New York, Bros of the Euroclear System and Deutsche Boyse Clearing: Noteholders are referred to the Conditions of the Note Lease (in particular "Reden and "General Information").

Paribes Luxembour Ju Boulevard Royal L-308: Luxembourg

Dated Li March, 1995



Notice to Noteholders

EUROPEAN INVESTMENT BANK

DEM 1,395,897,000

5.25 per cent. EURO-Fungible Notes due 15 April, 2004

cuch Note of DEM 1,000 shall be deemed to be converted into EURO \$11.29;

2 an amount of EUP/12534 shall be paid on 15 April, 1990 to the holder in respect of each Note of DEM 1,000;

in addition to the payment of interest, an amount of EURO 3.23 shall be publied in 18 April, 1989 to the holder in respect of each Note of DEM LIOO to that, for each such Note, the amount of each EURO-denominated Note (the "Original Note") shall be nzirons of the Notes (the "Now Notes") shall be EURO 4, EURO 19,000, EURO 199,000 and EURO 1,000,000

and the total amount of the Note betweekell be EURO 709,113,77 дради Дауи

any reference to business days in the Conditions shall be deemed to refer to a day on which the Trans-European Antanasted Real-time Grass settlement Express Transfer systems "TARGET" to open;

8 the Note Lame rhall be consulinated with note leaves 5.25 per cent. EURO-Fungible Notes due 13 April, 2004. ISIN X80081987874, X8008889898, X80073576082 and X80081314907.

(the "Other Issues" and together with the Note Issue the "Consolidated Inste") which shall also be consolidated on 15 April, 1990;

in April, 1995.

Combail amount of Compolidated Issue

the uggregate nominal amount of the Compolidated Issue shall be of a maximum amount of EURO 3,141,400,716;

the EIR shall issue repincement Global Notes for the Compolidated Issue in exchange for the Global Note of the Note Issue and
the Other Issuer;

ISIN number the ISIN number for the Convolidated Laure shall be XSU0058433-50;

To to the extent the Notes are held in Cedelbank or Morgan Guaranty Trust Company of New York, Brancel: Office, as operator of the Eurochear System, the common depositary shall be Paribas Luxembourg; to the extent the Notes are held in Deutsche Borse Clearing;

It the Cornelished I see shall be listed on the Luxembourg Stock Exchange, without prejudice to a listing on one or more other.

Stock Exchanges in the European Community:

22 the Compilidated I sate shall be eleared through Cerleibank, Norgan Generality Trust Company of New York, Brassels Office, as operator of the Euroclear System and Dentselse Börse Clearing. operator of the Euroclear System and Dentsche Börse Clearing;
Noteholders are referred to the Conditions of the Note Issue (in particular "Redenomination", "Further issues and Consolidation of the Note Issue (in particular "Redenomination", "Further issues and Consolidation of the Note Issue (in particular "Redenomination", "Further issues and Consolidation of the Note Issue (in particular "Redenomination", "Further issues and Consolidation of the Note Issue (in particular "Redenomination", "Further issues and Consolidation of the Note Issue (in particular "Redenomination", "Further issues and Consolidation of the Note Issue (in particular "Redenomination", "Further issues and Consolidation of the Note Issue (in particular "Redenomination", "Further issues and Consolidation of the Note Issue (in particular "Redenomination", "Further issues and Consolidation of the Note Issue (in particular "Redenomination", "Further issues and Consolidation of the Note Issue (in particular "Redenomination"), "Further issues and Consolidation of the Note Issue (in particular "Redenomination"), "Further issues and Consolidation of the Note Issue (in particular "Redenomination"), "Further issues and Consolidation of the Note Issue (in particular "Redenomination"), "Further issues (in particular

Copies of the Conditions are available for inspecting at the office of the Fi-cal Agent at Paribas Luxembourg 10a Boulevard Royal

L-3/33 Luve

Dated 15 March, 1999



EUROPEAN INVESTMENT BANK

ITL 750,000,000,000

Differentiated Coupon EURO-Fungible Notes due 15 April, 2004 ISIN XS0081387374

each Note of ITL 5JH0,000 shall be demaed to be converted into EURO 2582,29 Laterest Payment nt of EUPO 61.39 shall be paid on 15 April, 1999 to the holder in respect of encir Note of FTL 5,000,000s

3 in addition to the payment of interest, an amount of EURO 2.28 shall be paid on 15 April, 1999 to the holder in respect of each Note of 171, 5,000,000 so that, for each such Note, the amount of each EURO-denominated Note (the "Original Note" shall be EURO 2,500.

the new denominations of the Notes (the "New Notes") shall be EURO 4, EURO 10,000, EURO 100,000 and EURO 1,000,000 and the total amount of the Note Issue shall be EURO:87,000,000;

ference to business days in the Conditions shall be deemed to refer to a day on which the Trace-European Au time Gross settlement Express Transfer system "TARGET") is open;

personations
the Note issue shall be consolidated with note issues
5.25 per cont. EURO-Fungible Notes due 15 April, 2004,
ISIN DE0001857206, XS008336626, XS0073576562 and XS0061314907
(the "Other Issues" and together with the Note Issue the "Compositated Issue"; which shall also be consulidated on
15 April 1000. (the Tours 12.2)
15 April, 1998;
The language of Compelled and Inc.

the aggregate nominal amount of the Consolidated Issue shall be of a maximum amount of EURO 3,141.400.71% the EIB shall issue replacement Global Notes for the Consolidated Issue in exchange for the Global Note of the Note Issue and

ISIN number 9 the ISIN number for the Copyolidated League shall be X2005531250.

10 to the extent the Notes are held in Cedelhank or Margan Guaranty Trust Company of New York, Brussels Office, as operatur of the European System, the Note depository shall be Parabas Luxembourg; to the extent the Notes are held in Deutsche Bürse Clearing, the depository shall be Deutsche Börse Clearing;

Stock Exchange Listing

If the Consolidated Issue shall be listed on the Luxenshoury Stock Exchange, wathout pregnities to a listing on one or more other Stock Exchanges in the European Community;

Clearer

12 the Consolidated Issue shall be cleared through Cedelbank, Murgas Guarant: Trust Company of New York, Brussel. Office, as operator of the Euroclear System and Deutsche Börse Clearing:

Noteholders are referred to the Conditions of the Note Issue (in particular "Review constitue", "Further Issues and Consolidation" and "General Information".

Copies of the Conditions are available for inspection at the office of the Fascal Agent at

Dated 15 March, 1990

Paribas Luxembourg 10a Boulevard Royal L-2097; Luxemb

NEWS DIGEST

ACQUISITIONS

Japan Tobacco plans to accelerate diversification

Japan Tobacco will accelerate its diversification plans despite its \$8bn acquisition of the international cigarettes business of RJR Nabisco. Yasushi Shingai, a senior execuive, said he was confident the group had not overpaid for RJR International, and that it would reap \$300m in post-

tax synergy savings after five years. Speaking in New York, Mr Shingai said future diversification would concentrate on pharmaceuticals and food. Less than 2 per cent of the group's total sales currently come from non-tobacco areas. Its pharmaceutical business has icensing partnerships with drug companies including Johnson & Johnson and Pharmacia & Upjohn. Food operations include Burger King restaurants in Tokyo. Green Giant processed foods in Japan, and soft drinks.

Mr Shingai, general manager, corporate planning division, would not give details of the company's debt structure after the RJR International acquisition, which is being financed by Citibank, However, the group had \$5.4bn in cash and short-term investments at the end of last year, and would reduce its cost of capital by taking on debt.

Analysts had said a buyer with a broader international presence would have been able to find more synergy benefits but Mr Shingai said: "We can rejuvenate these brands because of the cashflow from our domestic operations." Andrew Edgecliffe-Johnson, New York

OIL

Sasol, Petronas to co-operate

Sasol, the South African petrochemical and synthetic fuel producer, and Petronas, the Malaysian state oil group, are considering the establishment of a joint oil company and will explore other forms of co-operation.

Last year, Petronas bought control of Engen, South Africa's biggest fuel retailer. The proposed new company is likely to be based on a tie-up between Sasol's synthetic fuel plants and Engen's retail network. They may also co-operate on petrochemicals and oil and gas exploration.

Sasol, whose oil-from-coal plants date back to the apartheid era and attempts by the government to circumvent an oil embargo - said in December it was terminating the old agreements obliging companies such as Engen. Shell and Total to buy Sasol fuel and have Sesol pumps on their petrol station forecourts. Sasol's subsidies are being phased out. Victor Mallet, Johannesburg

AUTOMOTIVE PARTS

Federal-Mogul stock slumps

Shares in Federal-Mogul, one the most acquisitive players in the wave of consolidation in the automotive parts sector, slumped by about 11 per cent on Friday, as several analysts reduced earnings forecasts. The blame for the fall was attributed mainly to the impact of a Merrill Lynch note, which lowered the firm's rating from "accumulate" to "buy", and talked of sales running behind projected levels, partly because of the weak European after-market. The first quarter earnings estimate was cut from 95 to 92 cents. Another research firm also cut its estimate to 90

The Michigan-based company has tripled its annual sales through a number of large acquisitions over the past 18 months, including Britain's T&N group, Chicago-based Fel-Pro and the automotive arm of Cooper Industries. But t recently missed out in the bidding for LucasVarity in the UK, with TRW, another US company, emerging as the successful buyer. However, while the acquisition strategy has increased Federal-Mogul's market position and sales, it has also meant a more leveraged balance sheet, with a large amount of new equity having already been issued. Nikki Tait. Chicago

PAY TELEVISION

MIH to list in Amsterdam

MIH Holdings, the South African provider of pay television services, is to bring a minority stake in its operations to the Amsterdam stock exchange next month, in the latest move by a Johannesburg listed company to seek a quotation abroad. It filed documents last week with the US Securities and Exchange Commission to offer shares in MIH Limited, a British Virgin Islands subsidiary which conducts most of its activities. These include supplying a TV signal to nearly 1.9m households, mainly in Africa but also in markets including Greece and Thailand.

According to the SEC filing, the company had revenues in its latest six months to last September of \$286.3m, on which it made a net loss of \$32.2m. The offering follows strong demand for an issue launched in Amsterdam this year by United Pan-Europe Communications, a cable TV provider which, like many in the industry, has never made a profit. Gordon Cramb, Amsterdam

SOFTWARE

Oracle shares down a fifth

Shares in Oracle, the software company, fell by more than a fifth on Friday as the market reacted to lower than expected third-quarter revenues. Although the company exceeded Wall Street profits forecasts with earnings of 20 cents a share, revenue growth was lower than expected, rising by 19 per cent to \$2bn. Revenues from the services business rose 29 per cent to \$1.2bn, but sales of software were sluggish, with a 7 per cent year on year improvement

Analysis responded by cutting buy recommendations. The news caused the shares to drop \$8%, or 23 per cent, to \$282. Oracle shares have been remarkably volatile over the past two years as the company has fought to overcome slowing sales of its database software with expan-Sion into new areas, such as financial applications and

Womes about slowing growth depressed the share price for most of 1998, but the launch of several new products last autumn prompted a raily that lifted the share price from \$15 to more than \$40.

Roger Taylor, San Francisco

AIRLINES

Taiwan carrier sees profit

China Airlines, Taiwan's major carrier, expects to return to profitability this year after painful losses in 1998. Philip Wei, director of the airline's finance division, said results for last year were still being audited, but that the airline expected a net loss of slightly less than T\$2.85bn (US\$86m).

China Airlines' ticket sales plunged after a crash in February 1998 that killed 202 people and a slump in travel caused by Asia's financial crisis. Executives of the company, which is majority-owned by a government-controlled foundation, said that in recent months they had improved safety and made progress in regaining passengers' trust. Mr Wei declined to give details of the expected profits for 1999, but said they would at least exceed US\$22m.

LVMH ready to limit its holding in Gucci

Bernard Arnault, chairman of LVMH, is prepared to goods group's stake in Gucci for at least three years.

Interviewed in his Paris office ahead of a week that and the resumption of discussions between the two sides in an effort to resolve said LVMH had "no intention of taking control" of the

Italian fashion house. He said LVMH was "perfectly ready to sign a standstill and to commit officially not to have more than a limited number of board members". Nor did it want to interfere with management other than by submitting over. good ideas that will bring economies of scale and benefit every shareholder".

Asked whether he would not need to take control of Vuitton leather goods busi-

worthwhile, he indicated the French group would be confreeze the French luxury tent to leave its holding unchanged for three-to-five of Italy at below 35 per cent years - "and then we see".

> see what happens." Analysts expect Thurs-

make LVMH's investment

"In the meantime we can get acquainted very well with them," he said, "We will bring publication of can increase the value of our LVMH's financial results investment and then we will

day's results presentation to their legal battle, Mr Arnault show the group's net profit down about 30 per cent, due principally to its relatively high exposure to troubled Asian markets. But they also expect the company to be upbeat about prospects of recovery in the region following sales figures that appeared to signal the worst of the Asian crisis might be

> In a move towards greater disclosure that many will attribute to the battle with Gucci, figures for the Louis

Gucci in the longer term to ness will for the first time be split out and not subsumed in the so-called fashion and leather goods division.

While confirming Vuitton's status as LVMH's undisputed crown jewel, this decision will probably be less flattering for the rest of the unit.

Stripping out Vuitton's 1997 ebit of FFr4.21bn (£642m, \$702.6m) the rest of LVMH's fashion and leather goods portfolio appears to have contributed little to the unit's FFr4.3Ibn operating

The LVMH camp has identified more than FFr400m of possible annual synergles between Vuitton and Gucci. Mr Arnault said: "What we can bring is a lot of economy

in the cost of buying things." He was upbeat about prospects for a settlement, saying: "I think if [Gueci] is sincere in saying that they have no other objective but to stay independent, we should find an agreement."

Conditions ease for | Mol chief Brazil's borrowers

Brazilian corporate borrowers are beginning to feel reached its nadir two months ago when the Real crashed by 40 per cent.

Banks and companies have been shut out of capital markets for over six months but say trade finance lines steadily, even if access to markets remains limited.

zil's third biggest bank, said: "We are noticing an increase in the number of [trade] lines offered to banks. Terms

first began noticing an room for new issues." increase in requests by com-"the values are still small". nies and banks.

Inability to access international capital markets is hurting Brazilian borrowers, which are facing stiff amortithe end of a long winter, sation schedules. They had which began last August to make \$1.85bn in service with the Russian default and payments last month and must pay a further \$3.83bn in principal and interest on medium and long-term loans in March and April.

All but a few companies have had to pay these loans down or refinance them at are returning slowly but scorchingly high rates on local short-term capital marinternational loans and bond kets. The benchmark interest rate now stands at 45 per Luis Mauricio Jardim, a cent. Fortunately, repaydirector at Unibanco. Bra- ment schedules ease consid-

erably after June. Mr Jardim said markets for corporate and bank loans remain closed but spreads on and volumes are improving Brazilian bonds in secondary and there are some reduc- markets have narrowed. He tions in interest rates, said: "You are starting to see although it is very early to some scarcity. You are get-talk about numbers." some private banks and Fernando Gomes, head of investors trying to buy. the central bank's foreign. When this happens and capital department, said he interest rates fall, you get

Private borrowers are Romania, Slovakia, Croatia panies for authorisation to waiting for the government and Ukraine. issue bonds three weeks ago. to issue an international Brazilian companies need bond that would act as a refcentral bank authorisation erence point enabling interto sell bonds or raise loans national banks to resume

in growth pledge

By Kester Eddy in Budapest

Hungarian oil and gas company Mol intends to become the strongest energy player in the eastern European region, Janos Csak, the newly appointed chairman pledged last Friday.

While concentrating on the traditional core oil and gas sector. Mol will also target electricity and chemicals projects in both domestic and neighbouring markets.

"We want to make sure Mol has the controlling positions in the value chain. Anybody who comes into the energy sector in the region will first have to think of Mol, even if they have deep pockets," Mr Csak said: Mol has exclusive rights to

the import and wholesale gas market in Hungary, and dominates the retail petrol market, with 370 out of 900 branded stations. It is also expanding its 50-strong service station chain in

Mol had up to four years to prepare for the increased competition in the liberalised markets coming with overseas. However, he said lending to Brazilian compa- European Union membership, Mr Csak said.

CROSS-BORD	ER M&A DEALS		· – ·	
SIDDER/INVESTOR	TARGET	SECTOR	VALUE	COMMENT
Japan Tobacco (Japan)	Unit of RJR Nabisco (US)	Totiacco	\$8bn	Shock self-off
CIT Group (US)	Newcourt Credit (Canada)	Financial stycs	\$4.5bn	Stock swap
Fortis (Belgium)	American Bankers Ins (US)	Insurance	\$2.6bn	Seeking synargies
Relient Energy (US)	UNA (N'lands)	Power	\$2.4bn	Trailbiszer
Ahold (Riands)	Pathmark Stores (US)	Retailing	\$1.75bn	Building presence
Philips Electronics (N'Ianda)	VLSI Technology (US)	Semiconductors	\$777m	Rare aggression
Albemarie (US)	Albright & Wilson (UK)	Chemicals	\$865m	Agreed cash offer
BMC Software (US)	New Dimension (Israel)	Computer arvos	5650m	Top-tier gambit
IVG (Germany)	Asticus (Sweden)	Property	5446m	Pan-European
Penauitle (France)	Servesair (UIQ	Contract sryce	\$153m	Trumps Amey



Notice to Noteholders

EUROPEAN INVESTMENT BANK ITL 960,940,000,000

5.25 per cent. EURO-Fungible Notes due 15 April, 2004 ISIN X80089799826

combustion courversion, renominalisation and recurrentioning and consolidation is bereby given in accordance with conditions "Conditions" (of the Note Laue, so that with effect from 15 April. 1999 each Note of ITL 5.000,000 shall be deemed to be converted into EURO 2.502.26;

2 an amount of EURO 106.95 shall be paid on 15 April. 1989 to the holder in respect of each Note of ITL 5,000,000; 3 in addition to the payment of interest, an amount of EURO 229 shall be paid on 15 April, 1995 to the holder in respect of each Note of ITL 5,000,000 so that, for each such Note, the amount of each EURO-denominated Note (the "Original Note") shall be EURO-denominated Note (the "Original Note") shall be

the new denominations of the Notes (the "New Notes") shall be EURO 4, EURO 10,000, EURO 100,000 and EURO 1,000,000 and the Note lesses shall be EURO 495,445,040;

and these Days

any reference to incident days in the Conditions shall be deemed to rofer to a day on which the Trans-European Ann
Read time Green settlement Express Transfer system ("TARGET") is open; the Note Lone shall be consolidated with note is sue-

and per result EURO Fungship Notes due 15 April, 2014, ISIN DERMIESTAGE, ESUSIDESTA, ESOSTESTEDE and ESOSTESIANOT the "Other Louis" and together with the Note Issue the "Concolidated Issue") which shall also be concolidated Issue I shall be successful. ninal arrount of Consolidated Issue The appregnts nominal amount of the Consolidated Louis shall be of a maximum amount of EURO 3.141.460.716; the appregent nominal amount of the communicationer of an installation or manner of E.O.S.O.S. (6), 400.716; the ETH shall issue replacement Global Notes for the Consubilitied Levie in exchange for the Global Note of the Note Issue and

2 the ISIN number for the Consolidated I some shall be XS005653 (see

Dotted to March, 1999

Note Deponitary 10 to the extent the Notes are held in Cedelbank or Morgan Conranty Trust Company of New York, Brussels Office, as operator of the Eurockean Section, the common depositary shall be Parthas Luxembourg; to the extent the Notes are held in Deutsehe Borse Clearing, the depositary shall be Deutsehe Borse Clearing.

Stock Exchange Listing

11 the Consulidated Lone shall be listed on the Lumenbourg Stock Exchange, without prejudice to a listing on one or more other Stock Exchanges in the European Community. 12 the Consolidated Issue shall be cleared through Cedelbank, Morgan Guaranty Trust Company of New York, Brussein Office, as specials of the Eurocher System and Deutsche Birre Clearing; Not-shalters are referred to the Combitions of the Note Issue (in particular "Redemonsumation", "Further Issues and Consolidation" and "Several Intermation".

Copies of the Conditions are available for impertion at the office of the Final Agent of Paribas Luxembourg 10a Boulevard Royal L-3631 Luxembourg

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Croatian

ill 270%;

Pletige

OIL MOVE TO CUT OUTPUT UNDERPINS RISE

Market waits to see if price rally holds

position it assumed in the

crude price collapse of 1986

and one it has vowed never

iraqi output since the inva-

sion of Kuwait, shoulder the

The parlous state of many

Opec economies and the

ment of many heads of state

suggests compliance might

improve. The optimistic case

ments undertaken by private

Analysts say another posi-

tive factor is that Iraqi pro-

duction is probably at or

near the maximum possible

The attitude of some west-

ern oil companies also seems

to have changed. Last year,

most pushed for volume

growth to offset declining

sis seems to be on margins.

BP Amoco, which in recent

years has boasted of its abil-

ity to push up volumes, last

no volume growth this year.

prices is no doubt the out-

come that worried Opec

finance ministers are seek-

ing. But a rapid rise could

encourage cheating by coun-

tries keen to boost cash

flows. It would also slow or

even stop the erosion of non-

a rapid price rise is not guar-

anteed, even if the latest

agreement erodes the surplus and helps bring the

global oil supply equation

would do at a time of con-

know only too well, balanced

ensure they can purchase

the most appropriate tech-

Analysts expect the trend

to multiple vendor relation-

industry adopts new technol-

ogy to respond to the big

Large incumbents such as

AT&T and the Baby Bells

are moving quickly to build

"converged" networks capa-

ble of carrying voice, data

and video in order to com-

pete with alternate carriers

that have recently built their

The new technology

required by incumbent carri-

ers has given equipment makers such as Nortel new

opportunities to establish

relationships that had

First to market with new

eluded them in the past.

technology, as well as perfor-

mance and price, will deter-

own cutting edge networks.

increase in data traffic.

nology at the best price.

Some analysts argue that

Opec output.

A quick rebound in oil

without new investment

western oil companies,

involvement in the agree-

Iraq has demanded that

to take on again.

bulk of the cuts.

Oil companies and traders will be eagerly awaiting evi- Arabia. the world's biggest dence this week as to oil producer and exporter, is whether the latest attempt ever wary of being cast in by the world's leading petro- the role of swing producer. a leum exporters will succeed in pushing prices back to the \$15-\$21 a barrel range in which they have spent much of the past decade.

Last Friday members of Saudi Arabia, which has the Organisation of Petro- largely made up for lost leum Exporting Countries and important non-Opec producers such as Mexico announced that they would cut production by more than 2m barrels a day from next

The cut is to be in addition to last year's output reductions, the effectiveness of is also reinforced by the which have been underdecline this year of high cost mined by patchy Opec comnon-Opec output, especially pliance - only 77 per cent in onshore in the US, and a February, according to the slowdown in new develop-International Energy Agency - weak demand, a mild winter in much of the US and Europe, and a surge in Iraqi exports under the oil for food programme.

The widespread expectation that Opec would be forced to act again underpinned the recent rally in oil futures prices and oil company shares over the past

The price of the bellwether Brent Blend futures contract in London rose from \$10.88 a barrel two weeks ago to close at \$12.56 last Friday month said there would be but even with the latest output agreement oil prices are still below last year's depressed average of about \$13.30 for Brent.

Last week some Opec oil ministers voiced optimism that prices would quickly rebound as the cuts are into the global crude surplus that was one of the main causes of last year's price collapse. A few even predicted that oil prices would be back to the high teens by year-end.

pening depends on a number of factors. The first, as with back into balance, as it all commodity restraint agreements, is compliance, tinuing uncertainty about Opec officials insist this time the global economy, the ultiwill be different but much mate source of oil demand. depends on which countries And, as Opec oil officials cut the most.

The likelihood of that hap-

In the market's eyes Saudi markets do not rise.

By Scott Morrison in Toronto

The recent announcement

that AT&T was evaluating

new technology developed

Canadian communications

networking company, sig-

nailed that the US carrier

was looking for alternate

AT&T had long depended

on Lucent, the company it

spun off in 1996, to meet its

core equipment require-

ments but analysts said

AT&T appeared ready to

adopt an open network architecture, which would

enable it to purchase equip-

ment for any number of sup-

pliers, joining an industry

trend that is reshaping rela-

tionships between manufac-

While it is more difficult to

manage multiple supplier

networks, carriers have been

that concession in order to

turers and carriers.

Surregal !

4.00

manufacture of the second

equipment suppliers.

AT&T may shift

to multiple suppliers

by Nortel Networks, the ships to accelerate as the

Victoria moves on with power disposals

Australia's Victoria state has announced sales of its remaining natural gas utili-Arabia, Kuwait and the ties worth nearly A\$5bn United Arab Emirates are (\$3.18bn) as part of its privathe most credible, but Saudi tisation programme.

On Sunday, it said it would sell Stratus Networks and Energy 21, the third and final component of its natural gas distribution network for A\$1.67bn to an Australian consortium led by Boral Energy and Envestra.

On Saturday, it said it would sell Multinet Gas/Ikon Energy for A\$1.97bn to a consortium led by United Inc., a US-based energy company, and AMP, Australia's largest insurance and financial services group.

In January, the state gov ernment sold Westar/Kinetik Energy for A\$1.62bn to USbased Texas Utilities Co. Sunday's sale brings to \$28.1bn the proceeds from Victoria's energy privatisation programme since it launched electricity reforms

in 1995. Alan Stockdale, state trea surer, said the state's last remaining electricity generating assets. Ecogen gasfired electricity stations at Newport and Jeeralang, would be sold by the end of March. The sale of the remaining gas asset, Transmission Pipelines Australia, would probably be comprices. This year, the emphapleted in late April.

For a brief moment last week during the hectic takeover battle between Olivetti ing a \$10bn to \$14bn facility and Telecom Italia, it looked

both companies to raise jumbo syndicated loans one to pursue the hostile bid, the other to help see it off – were set to provide an early test of how deep the eurodenominated capital markets really were. They are, in fact, very deep indeed, regardless of the scepticism surrounding

like the world was about to

run out of euros. Plans by

By Vincent Boland

the financing being sought by both companies. Olivetti is seeking to raise €22.5bn (\$24.4bn) while Telecom Italia wants €10bn (Initial speculation that it might want €20bn was considerably wide of the mark),

Olivetti's chances of secur-

need to be, given the scale o

If Olivetti's bid fails, it will be because investors are not convinced the new company will work, not because there is insufficient capital to inance its creation.

Bankers agree, however, that whatever the outcome, the role of the syndicated loan market for jumbo transactions has been trans-formed. Some predict that it will oust the international bond market as the primary source of funding for large merger and acquisition financing as European corporate restructuring gathers pace after the arrival of the

and Telecom Italia loans, rate transactions. First, easily the largest to date in although there is disagreeeuros, the market is absorb- ment about whether the loan for Vodafone, the UK telecommunications group, which is taking over Air-Touch of the US. Price talk in the market for that jumbo loan is for a margin of 65 to 75 basis points over Libor.

'The key question for banks is whether they are ing Telecom Italia. And they comfortable with the credit'

> Meanwhile, bankers are expecting Mannesmann, the German telecoms group, to tap the market for up to DM15bn (€7.7bn, \$8.3bn) to allow it to acquire Omnitel and Infostrada from Olivetti if the latter succeeds in winning Telecom Italia.

"The syndicated loan market has now been recognised as the main source of finance ing corporate acquisitions. That is a very interesting shift," says a senior syndicate banker at a London-based lender. "I see it playing that role on an ongoing basis."

The syndicated loan market certainly seems now to meet the criteria to fulfil the role and establish a new niche away from its core

Apart from the Olivetti structure projects and corporoute is cheaper for borrowers than that of the bond market, bankers say it is much more flexible, allowing banks to negotiate with each other rather than pitch to a wide range of investors.

SYNDICATED LOANS THE OLIVETTI AND TELECOM ITALIA BATTLE IS PROVING TO BE A TEST FOR BANKERS

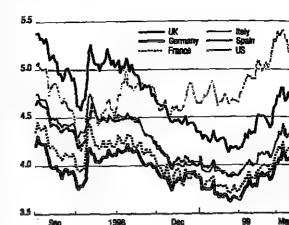
Jumbo transactions come of age

Second, raising financing in the syndicated loan market cements the relationship between a client and its bankers. In the case of Olivetti and Telecom Italia. bankers say a crucial element in their success in the market will be their ability to leverage their relationships with the international banks on whose support they are counting.

Telecom Italia's canny move into the syndicated loan market at the same time as Olivetti has caused some banks to think twice before committing to either of them, in order to assess their relationships with both parties to the takeover bid.

Given the plethora of banking advisers to both sides, some of the biggest banks in the syndicated loan market are "conflicted", according to market observers. This is the case even though neither Olivetti nor Telecom Italia is believed to have demanded "exclusivity" - whereby a bank committing to one syndicate could not participate in the

A third reason why the syndicated loan market has



arrival in the sector in recent years of the big US investment banks.

These banks not only provide advice on mergers and acquisitions but also the means of financing them. Bankers say Goldman Sachs, Merrill Lynch and Morgan Stanley Dean Witter have as important as commercial banks in the loan market - a good example of the "one-stop shopping" strategy they have adopted in recent years.

The growing importance of the syndicated loan market has valuable lessons for borrowers too, bankers say. Apart from their banking relationships, their credit history will be key to their success in raising capital. Olivetti is paying 225 basis

€22.5bn loan, widely seen as expensive for the borrower but necessary in order to

ensure a strong syndicate.
As one US banker noted: "The key question for banks is whether they are comfortable with the credit. It doesn't matter what the margin is if you don't think you will be repaid."

That means that margins are likely to continue widening from levels seen in the past two years, when they had often fallen to 20 basis points over Liber.

If predictions about the scale of European industrial restructuring and cross-border acquisitions are borne out, the jumbo syndicated

PINAULT PRINTEMPS-REDOUTE

Strong improvement in results

I Yumber 1 in Europe in specialized distribution, the Group has leading positions in its four divisions:

· Le Printemps, Conforama, Redcats and Frac in retail

 Finaref in credit and financial services · Rexel, Pinault Bois & Matériaux and

Guilbert in business to business CFAO in international trade

of each one of its subsidiaries.

Determined to be an international player, the Group's major objective is to

Pinault-Printemps-Redoute, whose role is to be at the service of its customers, has three principle values: entrepreneurial spirit, reactivity and innovation.

strengthen both the growth and profitability

Sales

+ 39.1 %

Operating income

+ **26.7** %

Net income Compared with 1997 recurring income. The Supervisory Board of Pinault-Printemps-Redoute, chai- 1 red by Ambroise Roux, met March 10, 1999 and approved the Group's audited parent company and consolidated results as at December 31, 1998, as presented by the

Consolidated figures	In Emillion		Change	In FF millions	
	1986	1997	%	4996 1997	
Revenues	16 5267	13 595.2	+21.5 %	100:320 - 89 179	
Operating Income	972	655.1	+39.1 %	5 977 4 297	
Net income before goodwill amort.	566.8	437.7	+29.3 %	3712. 2871	
Net Income	507.3	400.9°	+26.7 %	. 3:384 2 630°	
Dikated Earnings per share (E/FF)	4.32	3.56	+21.1 %	23.34	
Proposed Dividend (€/FF)	14	1.19	+27.1 %	7.80	
Californ	,755	601.4	+32.3 %	\$223 3945	
Capital expenditure	* 345.0	251.1	+37.9 %	2 373 1 547	
Shareholders' Equity	3.7773	3 040.4	+22.0 %	24,322; 19 944	
Net debt	3882.5	2 113,8	+45.8 %	29 216 13 866	

 published 1997 net income, excluding the impact of nonrecurring elements resulting from the sale of Prisunic, After non-recurring elements, 1997 net income was € 434,9 m (FF 2,853 m).

Sustained organic growth

Sales increased by 21.5%. On a comparable structure and exchange rate basis, 1998 sales rose by 5.9%. This organic growth is due to an increase of:

+ 6.6 % in the retail division • + 4.7 % in the business to business division

• + 8.2 % in the international trade division

Significant international expansion

In 1998, international sales grew by 51.8%, rising to 44.2% of Group sales (35.4% in 1997). This growth reflects the acquisition of Brylane (the fourth largest mail-order company in the USA) and Guilbert (European leader in the distribution of office supplies and furniture). In addition, internationalization of the Conforama and Fnac activities through the opening of stores in Spain and Portugal, and further acquisitions for Rexel aimed at strengthening its worldwide presence (Australia and New Zealand) have significantly boosted the share of international sales.

Further increase in profitability

Consolidated operating income rose by 39.1%, amounting to € 911.2 m (FF 5,977 m). An improvement in the gross margin and strict cost management have enabled an increase in the operating margin in all divisions. The operating margin increased by 0.7 point to 5.5 %, compared with 4.8% in

Net financial costs were € 63.3 m (FF 415 m), compared with € 24.7 m (FF 162 m) in 1997. This reflects the major acquisitions completed during the year. The fall in interest rates somewhat offset this effect.

The share in earnings from equity affiliates amounted to € 136.7 m (FF 831 m). The contribution from the Financial Services division rose by 24.8 % against 1997 to € 119.7 m (FF 785 m). Average outstanding loans and new loan production for the division increased by 11.3% and 13.3%

Minority interests totaled € 97.6 m (FF 640 m). The € 42.2 m (FF 277 m) increase is largely due to minority interests in Guilbert and Brylane.

Group share of net income before goodwill amortization reached € 565.9 m (FF 3,712 m), up 29.3% compared with 1997 recurring income.

Thus, after goodwill amortization, Group share of net income amounted to € 507.8 m (FF 3,331 m) up 26.7% compared with 1997 recurring net income.

Diluted earnings per share progressed by 21.1 % as a result of the dilution from the 1998 capital increase to remunerate the acquisition of Guilbert shares.

Financial structure

Cash flow Increased by 32.3% to € 795.9 m (FF 5,221 m). Combined with the improvement in working capital, it largely covers capital expenditure in 1998 which totaled € 346.4 m (FF 2,272 m), up 37.9%. Thus, free operating cash flow generated during the year amounted to € 476.7 m (FF 3,127 m).

Net financial investments amounted to € 808.7 m (FF 5.305 m).

Net debt rose from € 2,113.8 m (FF 13,866 m) to € 3,081.9 m (FF 20,216 m) and the debt to equity ratio rose from 0.69 at year end 1997 to 0.83.

Dividend up 21.1 %

In 1998, parent company earnings reached FF 873 m against FF 630 m in 1997. Net income totaled FF 1,555 m.

At the Annual General Meeting on 27 May 1999, the Supervisory Board will recommend the distribution of a dividend of 9.45 francs (1.44 Euros) per share, combined with a tax credit of 50% for individual shareholders. Subject to approval from the AGM, this dividend will be paid on July 1, 1999.

Outlook 1999

Since the beginning of the year, the favorable 4th quarter trends in the retail division have continued. In the business to business division, the trend remains positive. At end February, including the integration of Brylane, Group revenues were up 11.3 %.

In 1999, the Group will pursue a sustained development programme by organic growth (in particular with the opening of 100,000 sqm or + 12 % of new sales area) and by acquisitions.

Rexel acquired five companies in February 1999, generating combined annualised revenues of 85.4 M€ (560 MF), thereby strengthening its positions in Europe and in connectors and industrial automates.

An agreement has been signed with the independent directors of Brylane permitting the purchase of the outstanding shares at

a price of \$ 24.5, for a maximum amount of \$ 211 million.

Croatian telecoms sell-off to begin ment in the government's By Kevin Done,

increasingly willing to make mine who wins supply con-

East Europe Correspondent

Croatia is aiming to complete the first part of the privatisation of its telecommunications utility during the third quarter this year in the flagship deal of the belated programme to sell key state assets.

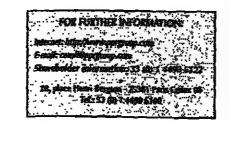
The government has appointed Dresdner Kleinwort Benson, the investment banking division of Dresdner Bank of Germany, as the for the privatisation of Prilead adviser for the deal which is expected to value Croatia Telecom (HT) at Daiwa Europe will advise on more than \$2.5bn.

In the first stage the government is seeking to sell a Touche working on the disminority stake of 25 per cent posal of Rijecka Banka. in HT to a strategic investor. This is expected to be followed by an initial public privatise INA, the state-

strategy to increase the flow of privatisation revenues to help balance the state budget this year. Late last month it raised €300m (\$328m) in its debut eurodenominated international bond issue.

Croatla is also seeking to sell substantial stakes in three state-owned banks later this year. It has appointed ABN Amro, the Dutch bank, as the adviser vredna Banka, the second largest Croatian bank, while the sale of Splitska Banka with HSBC and Deloitte &

The government has also announced its intention to offering to international and owned oil and gas group, domestic investors in 2000. although the timing of this The sale is a crucial ele-sell-off is still unclear.























CFAO

Dow Corning may be near deal on implants

Dow Corning will today take an important step towards the final resolution of its long-running legal battles against women with breast implant claims.

The company will post details of its proposed \$3.2bu settlement to 176,000 women. in what it hopes will be the ever, last November it penultimate milestone on its road back from Chapter 11 bankruptey protection.

The recipients, 136,000 of whom are in the US, will be sent ballot slips and will have 60 days to vote on the

On June 28, a confirmation hearing is expected to begin before the Bankruptcy Court. If successful, this could allow Dow Corning to

dends to its two share- ments, have asked their con-

Dow Corning, a joint venture owned equally by Dow Chemical and Corning of the L'S, still denies that the silicone gel implants it manufactured until 1992 can cause suffering or illness. Howreached agreement with a hear the case in Michigan in tort claimants committee to settle the dispute.

made up of attorneys representing the claimants and lawyers with experience of other medical devices claims. supports the so-called "amended joint plan of reorganisation". but some hurdles remain.

Dow Corning's commercial creditors, who are owed \$1bn range from \$2,000 to \$250,000.

July, after four years, and to and are arguing over a furresume payments of divi- ther \$300m in interest paystituents to vote against the

The creditors make up a class, and all classes must normally accept the proposal for it to go through. Dow Corning said, how-

ever, that District Judge Arthur Spector, who will June, has some discretion over whether to take the The committee, which is creditors' objections into consideration.

The company is also establishing a call centre in New York, which will be staffed by more than 500 people able to provide information for claimants 16 hours a day, six

The potential payments

EMERGING MARKETS FALLING INTEREST RATES FUEL INTEREST OF SMALL INVESTORS IN EQUITIES

Greeks try their luck with shares

By Kerln Hope in Athens

last arrived in Greece. A sharp fall in interest rates on government bonds has sent investors to the stock market in droves and pushed share prices to record heights

On Friday the Athens general index hit a new high of 3,537.9, marking a 29.2 per cent gain this year in drachma terms. Investors piled into bank stocks amid reports that bidding would be aggressive in the privatisation sale later this month of a majority stake in Ionian Bank, Greece's fourth-largest

"This rally is retaildriven," said George Boyatzis, analyst at Omega Securities. "The market seems over-priced to foreign institutions, but domestic investors who trade small amounts are seeing big

banking group.

Brokers estimate that the number of share-owners in Greece has doubled over the past six months to about 1m almost 10 per cent of the population - and is steadily rising. Television advertising simed at small savers helped boost demand for shares in companies being partly pri-

Public offerings by Ote, the state telecoms company, Hellenic Petroleum, the state

oil refining company, and National Bank of Greece, the Popular capitalism has at country's biggest banking group, all attracted new

> However, the rush into equities came after interest rates on Treasury bills, the most popular form of household savings, fell below 10

Greek investors had grown accustomed to double-digit interest rates on government paper during a decade of high inflation but rates on the 12-month Treasury bill, the benchmark for small savers, have declined steadily as inflation has slowed. Interest rates on savings deposits have followed suit.

With inflation projected to fall this month from 3.7 per cent to 3.3 per cent, rates on 12-month bills have shrunk to 9.2 per cent against 10.2 per cent in January. The supply of Treasury bills is also diminishing fast as the finance ministry tries to reduce debt-financing costs by issuing bonds with longer

manurines.

Increasing confidence that Greece is on track to reduce inflation below 2 per cent this year and qualify to join the euro-zone in 2001 underpins the market's rise.

"The view on Greece is positive, provided that inflation continues to come down," said Miranda Xafa,

Salomon Smith Barney in

The market shrugged off a political crisis over Greece's involvement in the capture of Abdullah Ocalan, the Kurdish guerrilla leader, which cost three cabinet ministers their jobs. It helped that the drachma stayed firm and that international investors showed little concern about the government's stability.

The feeling is that only a big international crisis could derail Greece's effort to join the euro," said Joanna Telioudi, analyst at Midland Pantelakis Securities, "Tensions with Turkey have been

However, Greece's new investors have shunned the blue-chip industrials popular the index, following a four-

an economics analyst at with international institutions in favour of banks and underperformed the market. The banking index has

formed 35 per cent this year

in anticipation of a fresh round of consolidation in the sector. The parallel market for small-capitalisation companies has risen 85 per cent. Small investors see bank shares as a safe bet, especially the big state-controlled institutions that dominate the sector. Most banks showed strong profit growth last year, although in many cases gains on their large

portfolios of government

bonds outweighed earnings

from banking activities. National Bank of Greece, the favourite among new investors, has outperformed

for-one share split and the announcement of a Dr180bn to Dr200bn (\$606m-\$674m) rights issue, which would be the largest to date in Greece. Private banks are also exploiting investor appetite for banking issues to raise large sums to fund expansion and acquisitions,

Piraeus Bank, a keen contender to acquire lonian. raised Dr120bn in January to strengthen its bidding position and plans to seek another Dr120bn. Xiosbank, a Piraeus subsidiary, is about to raise Dr37bn.

EFG Eurobank, another bidder for Ionian, has timed its listing on the stock market tomorrow, through a merger with subsidiary Bank of Athens, to take advantage of excitement over the privatisation deal. Its offer is priced at almost four times book value in hopes of strong demand.

Ionian itself led the bank sector's rise last week. Its share price improved 16.5 per cent as the March 26 deadline for binding offers for a 51 per cent stake held by its parent group, Commercial Bank, came closer.

"The lonian sale will be the driving factor in the market," Ms Telioudi said. Everyone's attention will be focused on the deal and it's important for the government to pull off a successful

Group prepares to emerge from traumatic five years

The silicone products venture is refocusing on core businesses as it begins to move out of bankruptcy protection, writes David Pilling

been traumatic at Dow Corning. Not only has the Midland, Michigan, maker of silicone-based products been in Chapter 11 bankruptcy protection since May 1995, but its very name has come to be associated with breast implants and the suffering they are alleged to have caused millions of women worldwide.

Today, as the company begins the lengthy process of extricating itself from bankruptey protection, it is seeking to refocus attention on the non-implant side of its business. Even at the height of breast-implant sales, its production of silicone products for the automotive, construction, electronics and beauty industries made up 99 per cent of revenue.

The company stopped making breast implants in 1992 after women began complaining of illnesses they said were due to leaking

Dow Corning, a joint venture between Dow Chemical admits that silicone implants rupture in up to 5 per cent of Corning. cases and that some women experience a hardening of But it has argued that these type of claims." conditions are not life-threatening and that no link has been established with other.

176,000 letters to women sequently the rest of the worldwide who have made breast Implant claims Churchfield, chief financial against the company, officer, called a "challeng-Women will be offered payments ranging from \$2,000 to

be 83.2bn. of which Dow from cash reserves and about Sibn from insurance. The company will set aside a

further \$1.3bn for creditors. If enough women accept the offer, the company should be able to emerge from Chapter 11 this year.

'We are bringing finality to the Issue, which gives us the opportunity to focus totally on the

business. When we come out of Chapter 11 no one can ever come after us for the same type of claims'

"We are bringing finality to the issue, which gives us the opportunity to focus totally on the business." and Coming, a glassmaker. says Jere Marciniak, European area president at Dow

Chapter II no one can ever tissue around the implant. come after us for the same

But neither has the company's core silicone business been immune from difficultles. A high dollar and fall-Today. Dow will send out ing demand in Asia, and subworld, made 1998 what John

ing" year.

conditions. The total bill will cent to \$2.57bn. Mr Churchfield said he did not expect Corning will meet \$500m to see any "strengthening of our short-term growth

prospects".

The company also announced a fourth-quarter restructuring charge of \$28.1m to undertake plant closures in Europe, the Americas and Asia and a corporate reorganisation around product segments rather than geographical

Along with what Mr Marciniak calls "consolidation of our global supply chain", Dow Corning has invested heavily in SAP software in an effort to raise efficiency and declining margins. He believes the \$100m investment should start paying for itself by mid-year.

Mr Marciniak, who is being transferred from Europe to head one of the product divisions, puts a brave face on the past few

The company has not lost any of its big customers, nor has it seen staff turnover accelerate, he says.

The experience, he argues has underlined the impor-"When we come out of tance of putting the customer first.

By the company's own admission, however, it will not be easy to remove the taint of the breast-implant Richard Hazleton, chair-

man and chief executive of thousands of dollars. Dow Corning, said in a recent speech that the company had apparently got stuck with a new name: "Dow Corning, hyphen, Once Profits fell 13 per cent to the World's Largest Maker of \$250,000 for the most serious \$206.7m on sales down 3 per Silicone Breast Implants."

By Andrew Edgecittle-Johnson

Ty Warner, the toy tycoon who created Beanie Babies. is buying the Four Sessons Hotel in New York for

Mr Warner, whose bean bag stuffed animals created a craze among collectors, is paying almost \$750,000 per room for the trophy prop-

Greg Rice, president of Solid Rock Advisors, which acted for Mr Warner in the purchase, said the Four hotel but would not comment on whether Mr Warner place to invest right now". planned to make further

hotel acquisitions. talking to the press, has earned a reputation for decade. astute marketing by deliberately "retiring" models to tion the 371-room building, increase their rarity value. designed by the Japanese The toys, which initially sell architect I M Pel, was the for little more than \$5, can change hands for several

The Illinois-based group Beanie Babies, and spawned magazines featuring the likes of Hope, the praying dye jellyfish. Ty inc, a pri- more than \$600.

FT GUIDE TO WORLD CURRENCIES

vate company, does not release details of its sales or profits.

Mr Warner is buying New York's tallest hotel from a consortium of Hong Kong pased investors, led by Lai Sun Hotels International.

Silverman, Pearce, Aronsohn & Berman, the law firm that represented Lai Sun, said: "They bought at a very opportune time and the market has improved."

He added that Lai Sun. which also co-owns the Ritz Seasons would be his first. Carlton in Hong Kong, "view the Asian market as a better

The consortium paid \$190m in 1996 for the 52-The founder of Ty Inc., storey botal, which had cost who has a policy of not about \$500m when it was built at the start of the

At the time of construcmost expensive hotel ever built, based on the cost per

Mr Rice said the hotel, has produced more than 200 which is managed under a long-term contract by the Four Seasons group, had the highest average daily room bear, and Goochy, the Ty-rate of any in New York, at

Toy tycoon to buy | Nissan and Renault said Four Seasons Hotel to be close to alliance

By Alexandra Harney in Tokyo

Nissan Motor and Renault, the French vehicle maker. appeared to be close to agreeing a strategic alliance, including a capital tie-up. as Barry Ross of Robinson, Yoshikazu Hanawa, Nissan president, and other top Nissan officials met with Renault officials in Paris over the weekend, according to Jananese newspaper reports.

Repault has made an offer to invest Y500bn (\$4.2bn) in Nissan, or at least 33.4 per cent of the company, the reports said. This would in effect give Renault a controlling stake by allowing it veto

tors. The Nihon Keizai newspaper reported that the two sides were negotiating the possibility that Renault would appoint as many as three executives to join

Missan's board. They are expected to finish negotiations by the end of the month. One investment banker said an agreement could be reached as early as

this week. Nissan refused to comment on the negotiations, except to say: "We are con- from Y486 to Y401 at the tinuing discussions with sev- close of trading on Friday.

erai companies, including Renault. However, we cannot make any comment on tions], the timing of an agreement or the agreement itself until an official announcement is made."

Nissan said Mr Hanawa had left the country on business. His departure followed the collapse of talks with DaimlerChrysler about a capital tie-up last week.

If a tie-up is agreed with Renault along the lines of speculation in the Japanese press, it would be the largest investment by a foreign vehicle manufacturer in the US raised its stake in Mazda from 25 to 33.4 per cent in 1996. It would help Nissan, the country's second largest vehicle maker, to eliminate Y2,500bn in net interest-bearing liabilities

and return it to profitability. An alliance with Renault would also reassure investors and Japanese government officials. Concern about Nissan's prospects in the wake of the collapse of talks drove its share price down 17 per cent last week,

An agreement would bring to a close months of negotiations between Renault and Nissan about strengthening co-operative ties that began last summer. They are said to have entered official talks in January, although Nissan has denied it had received a formal offer from Repault.

Several issues will need to be resolved. Chief among these would be Nissan's interest-bearing liabilities, as well as an undisclosed amount of debt within its dealer network. The size of these liabilities, and the reluctance of Nissan's main lenders to renegotiate the believed to be one of the reasons Nissan failed to reach a deal with DaimlerChrysler.

The fate of Nissan's loss making truck and engine unit, Nissan Diesel, would also have to be decided. Nissan Diesel brought the parent company into negotiations with DaimlerChrysler, which withdrew its bid to buy a stake in either Nissan or Nissan Diesel last week. Tsuyoshi Mochimaru, at Dresdner Kleinwort Benson in Tokyo, said solving the problems with Nissan Diesel was Nissan's first priority.

Corporacio



European investment

Notice to Noteholders EUROPEAN INVESTMENT BANK

EUR 1,500,000,000 5.25 per cent. EURO-Fungible Notes due 15 April, 2004

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Paribus Luxembourg 19, (Jogh, and Royal 1, 2007 Lazembourg

BANQUE INTERNATIONALE A LUXEMBOURG SA

MARUSAN ASIA GROWTH FUND Fonds commun de Placement

> 7 rue du Marché aux Herbes L-1728 I.UXEMBOURG

DISSOLUTION AGREEMENT

Dated 15 March 1999.

HSBC ASIA INVESTMENT SERVICES LUXEMBOURG SA

In accordance with Article 17 of the Management Regulations of Marusan Asia Growth Fund, HSBC Asia havestment Services Luxembourg SA (the "Management Company") and Banque Internationale a Luxembourg SA (the "Custodian") have, by mutual agreement, decided the dissolution of the Fund with effect on 25 June 1999.

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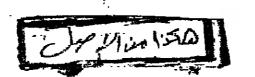
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FINANCIAL TIMES MONDAY MARCH 15 1999



MARKETS WEEK



March 15 - March 21

NEW YORK

By Richard Waters

The Dow Jones Industrial Average may have pulled up just short of the 10,000 barrier last Friday: but if this week's economic news confirms the picture of a domestic economy roaring ahead with no imminent danger of inflation rising. the DJIA should soon break through into five digits.

Thursday's release of January trade figures is expected to tell the story eloquently. The recent surge in consumer spending can be born if, as expected, the tradable goods sector is exerting such an increasing drag on domestic growth.

Wall Street expects a trade deficit of \$15bn for January. up from \$13.8bn in December and a big moderating force as consumer spending continues to grow at more than 5 per cent. The effect on manufacturing will be apparent on Tuesday: if industrial capacity use, as expected, was 80.3 per cent in February, it would be the lowest for seven years.

Benchmark yield curve

9 10 11 12 Mar 1999

The consumer price index. due Thursday, is expected to show a moderate 0.2 per cent advance in February, both the headline number and excluding food and energy. Completing the picture will be Tuesday's new housing starts, which are expected to be lower than the previous reading, but still strong.

LONDON

The Bank of England left interest rates unchanged this month for the first time since September and this week the markets will find out whether the chancellor gets the blame.

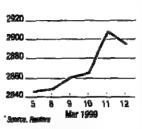
The members of the nonetary policy committee had a sight of Gordon Brown's Budget before making their decision and it is just possible that the package's modest giveaway and boost to consumer spending might have persuaded them to leave rates unchanged.

The recent upturn in UK economic data has started to force analysts to revise their expectations of how far interest rates will fall. Short sterling futures, the market's vehicle for speculating on interest rate changes, now indicate a floor

of about 5 per cent. The market will get some further clues from this week's statistics with the new series of average earnings, released on

Benehmark viold curve

--- 12/3/99



Wednesday, being of particular interest. The updated numbers indicated that wage pressures are declining and the consensus forecast is for a further drop to 4.3 per cent.

The focus on results will shift to industrial stocks, such as Bodycote, Laporte and Smiths Industries.

FRANKFURT

By Uta Harnischfeger

After cheering the resignation of German Finance Minister Oskar Lafontaine, investors should be ready to show some trust in German stocks this week. If the euphoria sent a signal, it should point to the Dax index of 30 blue chips moving towards the 5.500 mark. On Friday, the Dax rose 5.13 per cent to 5031.06.

its biggest rise this year. Mr Lafontaine's departure is sending sighs of relief through corporate Germany, particularly at utility and insurance companies, which were hardest hit by his tax reforms, and this positive sentiment should hold up for some days, analysts say. There were hopes that

Chancellor Gerhard Schröder and Hans Eichel. Mr Lafontaine's successor, would at least tinker with the tax reform. But despite Mr Schröder's shattering these hopes on Friday, utilities and insurance companies gained as much

as 14 per cent.

Benchmark yield curve

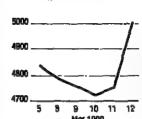


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2.75 .



A slew of large German corporations are holding press conferences next week to explain in more detail core earnings data published earlier in the month. Among them are Deutsche Bank and the "big three" German

chemical firms. Hoechst and

supervisory board meetings.

BMW are holding

TOKYO

Information to be released this week by the Bank of Japan is expected to clarify monetary policy and add to the improved sentiment that last week helped lift the benchmark Nikkei 225 Average by 4 per cent.

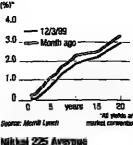
The Bank of Japan on Wednesday will release minutes from the February 12 meeting, where it decided to cut the call rate from 0.25 per cent to a target of 0.15 per cent "or lower". The minutes are expected to further explain the BOJ's monetary stance and outline possible steps for additional

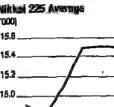
The Bank of Japan will also release its balance sheet from the first 10 days of March. The balance sheet shrank at the end of February, and economists expect that trend to continue, which could disappoint the market.

easing.

Money supply data is also expected. Economists are expecting low growth yearon-year due to last year's

Benchmark yield curve



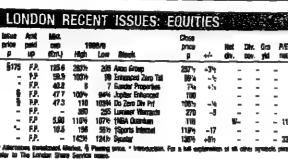


spike. Money supply grew last year as investors liquidated investment trusts after the collapse of Yamaichi Trust, the securities company.

9 10 11 12

Balance of payment data will also be released but this is not expected to have much of an impact on market sentiment.

Renault sail o alliance



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This announcement appears as a matter or record only

NEW ISSUE

Februar, 26, 1999

\$200,000,000

Price 99.936%

plus accrued interest, if any, from March 3, 1999

MidCap stocks to take centre stage

COMPANIES DIARY

Attention this week moves to the MidCap stocks that represent UK industry and away from the multinational companies that dominate the FTSE 100 index. The industrial sector includes construction companies Tarmac and Taylor Woodrow, and chemical groups such as Laporte. Charter and Smiths Industries have a chance to provide further reassurance to investors that had feared the global economic slowdown had wreaked bavoc among manufacturers. From the transport sector Euroduce its first profit, while in retailing Kingfisher will mark its status as a pan-European retailer with a results presentation in Paris. Pan-European presence: Sir Geoffrey Mulcahy of Kingflaher

TODAY

 Eurotunnel is expected to announce its first profit, helped by strong growth in the volume of traffic. This has been helped by the recovery from the fire in the Channel tunnel, strong demand in the cross-Channel market and the easing of competition as the P&O/ Stena merger occured. However. Richard Hannah at BT final pre-tax result of 260m (\$97m) - against a loss of £611m - believes the shares are overvalued compared with the convertible elements of the debt.

• Investors will be interested to hear how Spirax-Sarco is benefiting from the restructuring of its North worry. A consensus of anathe estimates service, sug-

update from speciality chem- fits in air & gas handling. icals group Laporte should

despite the tough trading UK heavy materials side, to buy into aerospace, perconditions of the fourth quarter. Williams de Broé expects the company's nicheoriented business profile to produce an outlook statement that will also reassure investors. The broker believes the organic chemicals side has enjoyed strong growth, and expects a static result of about £183m pretax. The range of analysts' Alex Brown, who expects a estimates goes from £127m to £133m. There has been some bid speculation linking the company with Clariant,

TUESDAY

• Charter is expected to produce a full-year pre-tax figure down some 12 per cent American side, although its at £83m according to IBES, exposure to Asia will be a as the engineer suffers from the collapse of currencies in lysts' forecasts from IBES, Asia and South America, and the global manufacturgests a full-year pre-tax ing slowdown. Merrill Lynch result 21 per cent down at expects there to be margin pressure within the welding side, and confirmation of the The reassuring trading delay in reorganisation bene-

the Swiss group.

the increase. A consensus of forecasts from First Call, the figure of £137.5m pre-tax, a driven by aerospace growth. 19 per cent rise on last year. Housing and property

expected to throw the spotlight on the state of the UK housing market, although recent changes to the group's structure have reduced its dependency on construction. A rise from £82m pre-tax to about £98m for the year is expected.

with prices and volumes on

Penetration levels at £559,2m. achieved by Telewest Communications will be a focus when the cable television and telephony group announces final figures, as will be its debt level. Williams de Broé expects a pratax loss of £315m, similar to last year.

WEDNESDAY

 Smiths Industries has been long expected to move the latest government efforts

contain no nasty shocks. have seen an advance in its sions, and to use the money haps by acquiring Lucas Aerospace. An advance of about 12 per cent to £104m estimates service, suggests a for the year is expected,

> Final figures from Kingfisher will be announced in group Taylor Woodrow is Paris, underlining its status as a pan-European retailer. The January trading update should mean the figures contain no shocks, although any comments on the outlook for UK retailing will be keenly examined in the context of a slowing in the economy, BT tax result II per cent ahead

THURSDAY

 National Express is expected to display strong growth. which may justify the p/s ratio premium at which the shares trade. A consensus of forecasts from IBES shows that analysts expect a 40 per cent increase in full-year pre-tax profits to £92m. There may be comments on towards a disposal of its in the Budget to encourage

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Corporación Andina de Fomento 7%% Notes due March 1, 2004

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Eyes on rates data

Peter von Maydell, senior currency economist at Credit Suisse First Boston in London, said Mr Lafontaine and the state of German politics was likely to recede into the background. "Yield differentials between the US and Europe will come much more into focus," he said.

"In particular the market will be watching the lio sur-vey [of business confidence] on Thursday as a leading indicator of growth and

euro-zone interest rates."

Minutes from the Bank of England, data from the US and the first post-Lafontaine meeting of the European Central Bank will keep ana-

of the Bank of England's

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After last week's excitement minutes for its March meet following the shock resigna- ing may help to indicate the tion of Oskar Lafontaine, path of future UK interest Germany's finance minster, rate movements. They may markets will this week also show whether the MPC return to the more mundane got an early sight of the task of assessing the relative UK's budget and whether economic performance of the this influenced the decision to hold interest rates.

Few analysts think the MPC's counterparts at the ECB will take the first available opportunity to cut interest rates at their meeting on Thursday, especially after Wim Duisenberg. ECB president, reiterating that monetary policy is on hold for the

Meanwhile, the state of the US economy will become from the United States on Thursday covering indus-trial production, trade data and the US consumer price

inflation, as expected by many analysts, could prove supportive for bonds and equities, and in turn this

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NOTICE OF APPOINTMENT OF REPLACEMENT TRUSTEE PowerGen (East Midlands) Investments £100,000,000 8.125 per cent. Bonds due 2007

A 1100,000 Util St. 125 per cert. Borrds due 2007

NOTICE S HEREN GNEN that pursants to clause 2.1 of a Supplemental Trust Doed made on 9th September 1998 (the Supplemental Trust Doed) Power Gen (Sear Midands) Investments (formerly DR Investments) (the Issue) of £100,000,000 8.135 per cert. Bords dave 2007 (the Notes) constituted by the arest doed dated 6ch june 1997 (the Trust Doed) has apprived Cotton [Festive Company Linted (the Reptocement Trustee) to act as fiveres of the Trust Doed in place of Priorgen Guaranty Trust Company of New York (the Edisting Trustee). Pursaum to Clause 2.1 of the Supplemental Trust Doed, the Energy Trustee has duly given notate of car with no restrict in accordance with Clause 25 of the Trust Doed and was discharged as Trustee by the Issuer. In exercise of the power given to it in Clause 24(c) of the Trust Doed.

CITIBANCO

Classified information.

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Floating Rate Notes due 2001 For the period from March 15, 1899 to June 15, 1999 the Notes will corry on interest rape of 2,77250 per attents with an interest amount of Let 35,455 per LTT introduction and LTT 55,250 per LTT introduction and LTT 55,250 per LTT introduction.

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000,000,00122U Subordinated Collared Floating Rate Depositary Receipts due 2003 issued by The Law Debensure Trust ntitlement to payment of principal and interest on deposits with Bon

& Nopoli Hong Kong Branch The receipts will bear interes at 6.125% per annum from 15 March 1999 to 15 September 1999. Incerest payable on 15 September 1999 will amount to US\$31.31 per US\$1,000, US\$313.06 per US\$10,000 and US\$3,130,56 per US\$100,000 receipt. Global Agency and Trust Service 15 March 1999 CITIBANCO





Floating Rate Notes due December 1939 Notice to the Holders Notice is hereby given that the Notes will carry an interest rate of 2.8225% per annum for the period 15.03.1999 to 15.06.1999.

 ITL 36,065
 per ITL 5,000,000 nominal
 ITL 360,663 per ITL 50,000,000 nominal Linembourg, March 15, 1999



investment Bank Italian Lira 300 Billion Capped Floating Rate Notes due 1999 Notice to the Holders Notice is hereby given that the

Notes will carry an interest rate of 3.5725% per annum for the period 15,03,7999 to 15,06,1999. ITL 45,649 per ITL 5,000,000 nominal ITL 456,486 per ITL 50,000,000 nominal Lucembourg, March 15, 1999

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CROSS RATES AND DERIVATIVES

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Corning	05/01	5,000	104.1100	3.01		0.00	+0.04	4.77
	01/06	6,000	112,8200	1.62	+0.02	-0.05	+0.94	
	91/09	3.780	67.8T00	4.02	_	_	+0.23	-0.84 -0.83
	97/25	4,780	96 1900	6.00	+8.02	+0.02	+9.29	
Grates	(13/10)	9,800	100,5963	9.15	-0.09	-8.28	-0.36	-5.42
	01/09	E.205	107,9000	2.50	-0.07	-0.16	-0.16	- 35
		_						_
	10/01 08/08	8,500	108.1400	2.17	-0.03	-0.00	+0,07	-10
		6,000	113,7200	4.20	-0.02		+0.24	.+0.86
lady .	07/01	4,500	102,000	3.13	-0.04	-107	+0.07.	
	07/02	4.500	104,1000	3.47	-0.05	-0.00	+8.11,	12.21
	05/00	4.500	102.3900	4.21	-0,05	-	+0.25	
	11/27	8,500	319,81(3)	8.19	-0.0	+0.03	+8.37 -	-0.0
lopes	12/00	6,900	111.5200	0.28	-0.02	+0.07	-0.51	-0.21
	12/03	4,100	114,7180	0.83	-0.04	+0.10	-0.40	8.22
	06/08	1,800	100 6710	172	-0.04	+0.14	-0.27	-0.13
	81160	2,300	94,8080	2.84	-0.04	+0.18	-0.20	1022
deducts.	01/01	9,000	110,3700	2,07	-0.01	-0.04	· 40.07	-0.94
	07/09	3,790	98.0900	4.15	-0.03	+0.02	+0.25	-8.86
استعدا س	02/01	8,000	105,2524	5.04	_			_
	07/09	7,000	105,3294	5.97	-0.03	-0.06	+0.02	2.6
		_			-0.04	-0.12	+0.27	-034
inredy	05/01	7.000	104.2700	4.29	-0.0	-0.10	+0.07	+D.96
	05/09	5,500	(DA 1000)	4.97	-0.04	-0.02	+0.33	-0.27
eringel	03/00	5,375	100	284	-0.03	+0.01	-0.10	-1.04
	80480	5,375	108.7000	4.20	-0.03		+8.25	-0.87
pain.	07/01	5,000	T03.6100	2.9	-0.02	-0.07	-0.03	-1.00
	07/09	5.150	105,2900	4.50	-0.02	+0.02	+0.5	0.52
winders.	05/00	10,250	107.5534		_		_	
	05/06	6,500	115,6240	3.20	-0.05	-	+0.01	-1,35
-				4.35	-0.10	-	+0.38	-0.99
	05/00	4.500	103.7000	1.43	+0 02	-	+0.04	-0:03
	01/09	4,250	115.3500	219	+0.04	-0.03	-0.11	-0.46
K	11/01	7,000	105.1600	4.89	-8.01	-0.05	+0.27	-1.79
	1303	6.500	107.6100	4.00	-0.01	-0.02	+0.34	-1.37
	12/09	5.790	110.1100	4.56	-0.01	-0.01	14.20	-1.30 -
	12725	6,000	TELESCO	4.55	-0.02		+0.27	-1.33
5	01/01	4.500	99 (937)	5.01	-0.0	-0.15	+0.15	-0.40
	92/04	4.750	98.5625	5.08	-0.08	-0.15	+6.17	-0.55
	11/08	4.700	96.9375	5.16	-0.05	-0.17	+0.15	
	05/28	5.250	95.8438	5.54	-0.02	-0.07	+0.09	-0.35
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Investors seek upside from Lafontaine

By Florian Gimbel

European equities are expected to start the week nation, with his contoversial on a positive note following tax reform plans likely to be the surprise resignation of Oskar Lafontaine, the Ger-

man finance minister. market is likely to come many, casting a brighter in the French banking sector

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and the prospect of higher Brothers thought Mr Lafonaoil prices.

German equity investors. in particular, stand to gain from Mr Lafontaine's resigdropped in the near term.

But the implications of this political upheaval are from continuing merger talk light on the entire euro-zone. Ian Scott at Lehman

latest in a series of events, signalling a more "investor- tors that were "well repre-

Europe. "The departure of the German finance minister certainly is the dominant fac-Additional support for the likely to go well beyond Ger- in France and the latest UK budget have strongly contributed to a change in per-

TSE Actuaries Share Indices

He thought the immediate tine's resignation was the benificaries of the latest euro-zone's problems were in events would be those secfriendly" business climate in sented" in Germany, such as cars and capital goods.

But others were less optimistic. "Lafontaine's resignation is reducing the down-Europe, but it adds very little upside potential," said Mark Howdle at Salomon

European series

latter has deterred portfolio flows from non-European sources, with US investors. side risk of investing in in particular, taking a waitand-see anomach.

> But Mr Howdle was not convinced Mr Lafonataine's change the current outlook for the euro-zone. "European shares are now fairly valued in relation to bonds. Equity risk premiums have eroded since late January, falling below our 3 per cent target

> level," he said.
> The FTSE Eurotop 300 index closed last week 0.08 higher at 1,259.68, while the FTSE Eurotop 100 feli 2.29 to index of leading stocks in the euro-zone settled 13.11

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ew Zeeland	(AZS)	2.0482	+0.0149			2.0695	2,0448	2.0504	-10.1	43 7506	-10.0	48,9305	-10.0
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and Arabie	(57)	4.1841	+0.0419			4.1420	1,8917	4.1186	1.0	1.8914	0.9	1.8947	L1
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=	110	114	5.32	5.35	1.75	1.43	5.50	5.53	0.37	0.40	W SOVERSONS								
year .	3.24	3.25	5.34	5.38	1.97	2.05	5.64	5.65	6.61	0.64	IIK	01/01	4.250	AAA	101.956	3,15	-0.04	+9.05	+
CW.	3.41	3.45	5.34	5.36	2.16	2.34	5.70	5.73	0.87	0.98	Dennari.	01/02	4.750	AA-	103.897	3.27	-0.03	+0.06	+
750	3.59	3.63	5.31	5.35	2.34	2.42	5.75	5.78	1.18	1.78	Sweden	02/01	5.000	M.	103.297	3.17	-0.04	+0.06	+
-	3.77	3.81	5.38	5.34	2.51	2.50	5.80	5.83	1.43	1.46	Sirector	11/08	6.760	HD4	114.223	4,51	-0.01	+0.16	+
jene	3.94	1.96	5.29	5.33	267	275	5.05	5.88	1,67	1.70	m statementow								
	₹10	W/16	129	5.33	2.83	201	5.60	5.82	1.85	1.88							10.00		
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yew'	4.32	436	5.30	5.34	3.12	3.20	3.97	5.00	Z14	2.17	58	04-06	5.000	AAA	105.942	4.20	-0.03	+0.24	•
year.	8,87	4.51	5.31	5.36	3.34	3.44	6.03	6.16	2.35	2.38 2.68	Eurohra	12/09	5.625	AAA	108.316	4.62 3.65	-0.01	+0.25	4
hou.	4.07	4.71 4.83	5.30 5.33	5.37 5.38	3.05	3.89	6.72	6.76 6.25	2.83	2.86	World Bank	04/05	7.125	AAA	117.42	3.90	-0.01	+9.13	*
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Acer	5.08	5.12	5.32	E-90	4.05	4.15	6 22	6.25	2.93	200	EDF	10/03	3.750	1956	101,390	3.42	-0.04	+0.04	4
		4				-					TEPCO	02/03	4.750	AA	103.684	3.73	-0.02	+0.00	
and alk rates											Quebec Hydro	03/08	5.375	Ã.	104.567	4.74	-0.03	+0.23	
ainst 3 mostins 1	Liber, E.a	nd Yes	custed a	M 2 800	ni-enna	arten!	365 bas	in appair	nt 8 mo	ntin Liber.							-0.06	-0.02	
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				360	is agains	al 6 mea	th Burk	or/Liber	with the		Horak jiyoto An maancial s	10/98	7.250	A	101.952	3.52	-1110	-0.02	•
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				360	is agains	al 6 mea	th Burk	or/Liber	with the	emeption	OF PENANCIALS Bad Wurt	02/10	5.375	м	105.597 110.952	4.59		+0.31	4
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Guilbert THE GROUP HAS MAINTAINED ITS DYNAMISM

AND IS GIVING ITSELF THE MEANS TO ALLOW FOR FURTHER EXPANSION.

AMNUAL RESULTS 1988 (% expressed compared to comparable 1997)

+ 15.9%

Operating profit:

+ 18.1%

Profit before extraordinary

liams after tax

+ 25.5%

The Board of Supervision of Guifbert S.A. which met on 4th Merch 1999 approved the statutory and consolidated accounts as at 31st December 1998 as approved by the Board of Directors and certified by its auditors.

	(शिव व	(in millions of Euros) Comparable				
Consolidated accounts	Dec.98	Dec.97	Dec.97	Dec.98	Dec.97	Dec.97
Sales	6 510	5 644	5 619	992.4	360.4	856.6
Operating profit	503	471	426	76.7	71.8	64.9
Profit before extraordinery liams after tax	353	320	279	53.8	48.9	425
Profit before amortisation of goodwill	383	343		58.4	52.2	
Consolidated net profit	329	258		50.2	39.3	

Commercial dynamism and firm 1998 saw modifications to the composition of the Guilbert Group. A joint venture was created with BERNARD (Group Redicate)

with a view to launching a professional mail order business in France; significant entry into the Italian market via the acquisinon of the following companies: MONDOFFICE (mail order) and AFICHINGEO (office supplies), consolidated from 1st January 1998 and 1st June 1998 respectively. The Guilbert Group sold AVENIR, a company which held 31% of J.M. Bruneau. As a result of the relative importance of our activities outside France (58.5% of sales), comparisons of the results are more

appropriate with the comparable 1997 figures which have been restated using the 1998 Group structure, exchange rates and Seles amount to 6 500 NF (992.4 MC) as a result of sustained activity and commercial dynamism in all countries, in France and the UK (87.8% of business) the increases were 15.9% and 13.9% respectively, the rest of Europe posting a 23.6% increase. Operating profit was 503 MF (76.7 MC), up 18.1% on a comparable basis, in particular as a result of an upturn towards the end of the year in the downward trend of the gross margin percentage in France. Commercial and logistics investments were made which will contribute to future development.

The profit before extraordinary froms and effor tax was 353 MF (53.8 ME) as opposed to 279 MF (42.5 ME) on a comparable

The net profit before amortisetion of goodwill amounted to 383 MF (58.4 ME) in 1998 compared to 343 MF (52.3 ME) in 1997, in increase of 11.7%. The Group share of net profit amounted to 329 MF (50.2 MC) and takes into account the amortisation of goodwill over a period of 40 years as opposed to 20 years previously.

	(in million	(in millions of Euros)		
Consolidated Interce street	Dec.98	Dec.97	Dec.98	Dec.97
Fixed assets	2 027	2 096	309.1	319.6
Working capital requirement	885	940	134.9	143.2
Net squity	2 445	1 943	372.7	296.2
Provisions	174	151	26.6	23.0
Net Indebtedness	293	942	44.7	143.6
	(In F	rancs)	(in E	uros)
Earnings per share	36.3	28.9	5.5	4.4

Reduction in not - 645 MF

Accounts of the percent company

The net profit of Guilbert S.A. was 352,6 MF (53.8 M€). A dividend of 150.3 MF (22.9 M€), or 16.5 FRF per share, plus an associated lax credit of 50% or 45% in conformity with the new Finance Act, will be proposed at the Annual General Meeting to be held on 20th May 1999. This dividend will be paid in cash on 1st July 1999.

Activity for lanuary and February 1999 points to an encouraging commercial dynamism for 1999. This, added to different measures underway, should permit a healthy borease in growth and profitability.

GROUPE PINAULT-PRINTEMPS-REDOUTI



Notice is hereby given that the Notes will carry an interest Rate of 2.7725% per annum for the perio 15 Merch 1999 to 15 June 1999.

-TTL 35.426 per ITL5.000.000 nominal • ITL 354,264 per ITL50,000,000 nominal Global Agency and Trust Services, Cabook, N.A. London March 15, 1999

Global Agency and Trust Services March 15, 1999 CITIBANCO

CITICORPO DM300,000,000

Floating Rate Notes Due December 1999 (the "Noties") Notice is hereby given that the Rate of interest for the interest Period March 15, 1998 to June 15, 1998 has been fixed at 3,3225% and that the interest payable on the elévant Interest Payment Date Jura 15, 1999, against Coupon No. 18 will be DM8.49 in respect of DM1,000 nominal of the Notes at will be DM84.90 in respect of DM10,000 nominal of the Notes.

CITIBANCO

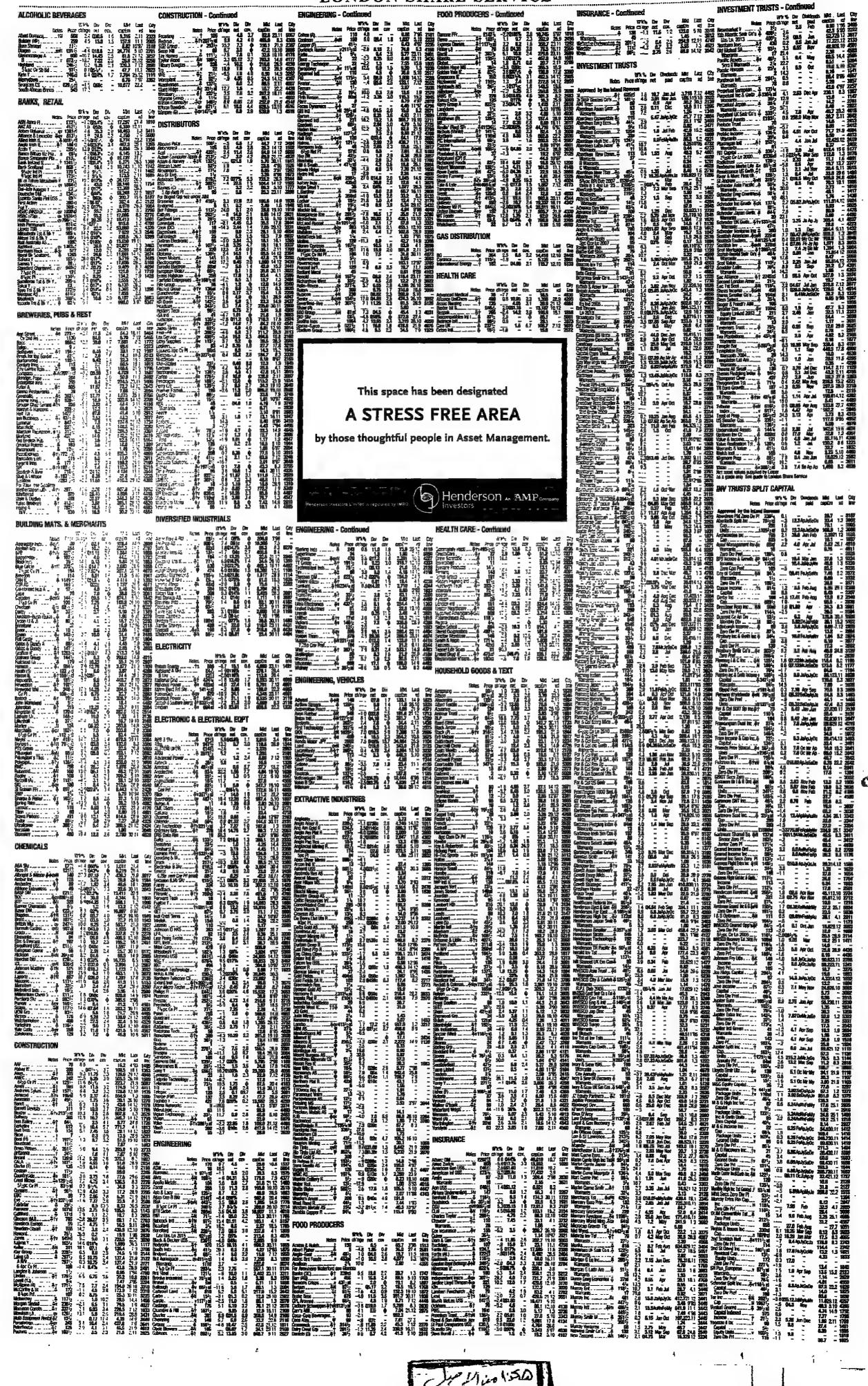


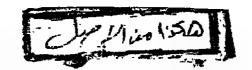
European Investment Bank PTE 30 Billion Floating Rate Bonds due March 2005 (issued on March 15, 1995) PTE 30 Billion Floating Rate Bonds due March 2005 (issued on June 15, 1995) Notice to the Holders

Notice is hereby given that the Bonds will carry an Interest Rate of 2.9855% per annum for the period of March 15, 1999 to

 PTE 7,525 per PTE 1,000,000 nominal PTE 75,251 per PTE 10,000,000 nominal PTE 376,255 per PTE 50,000,000 nominal

Luxembourg, March 15, 1999





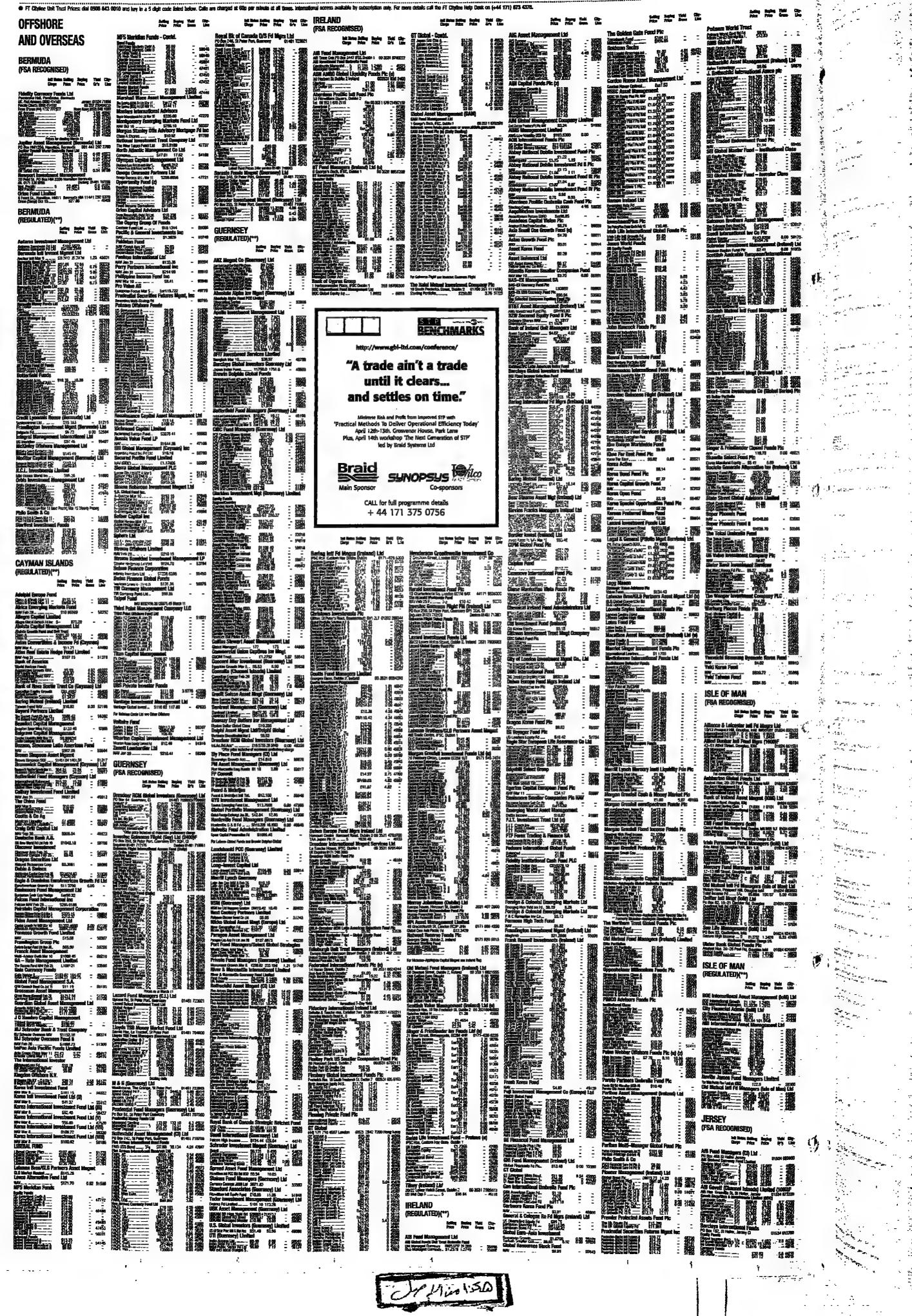
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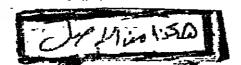
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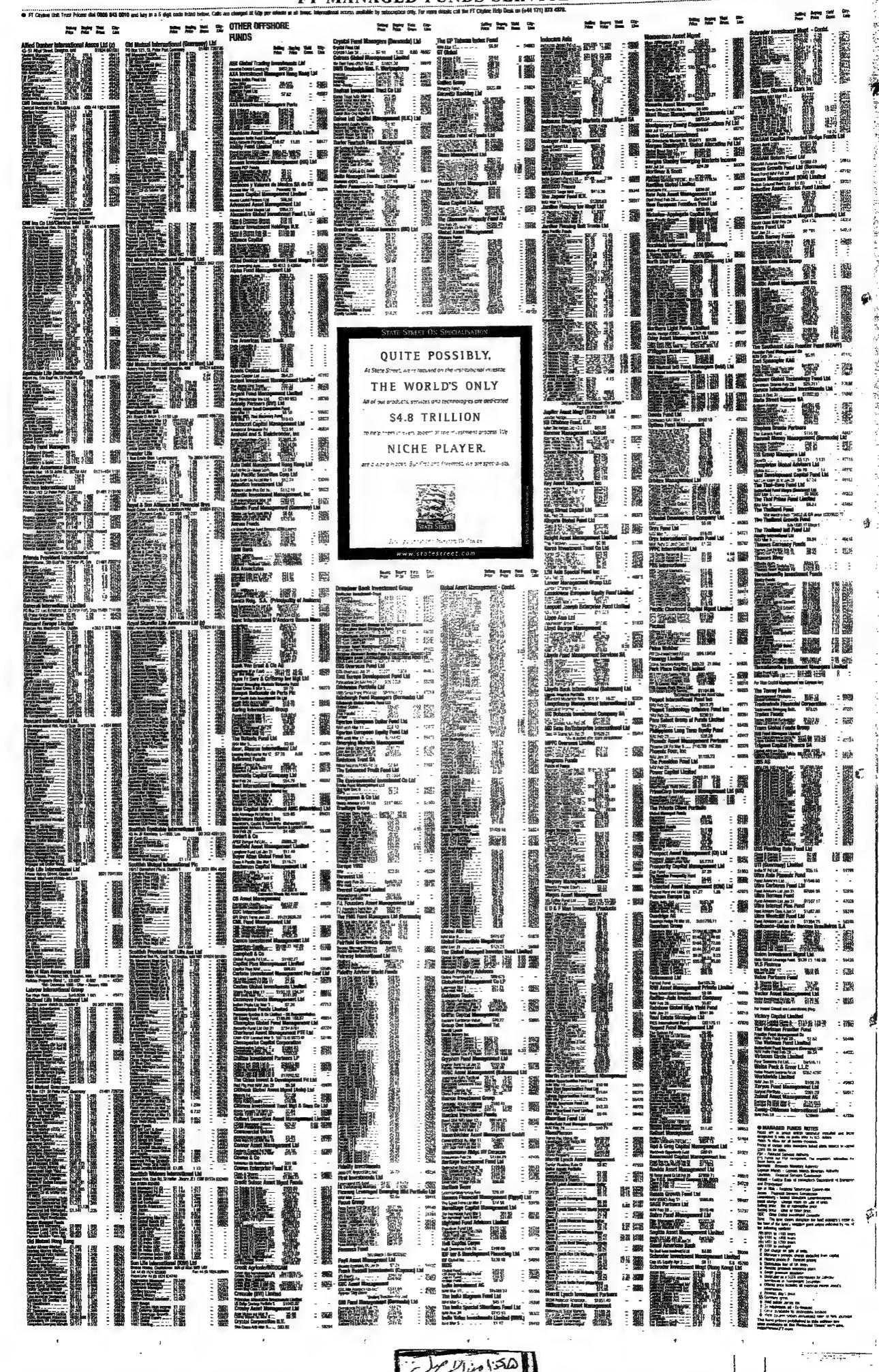


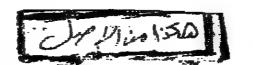


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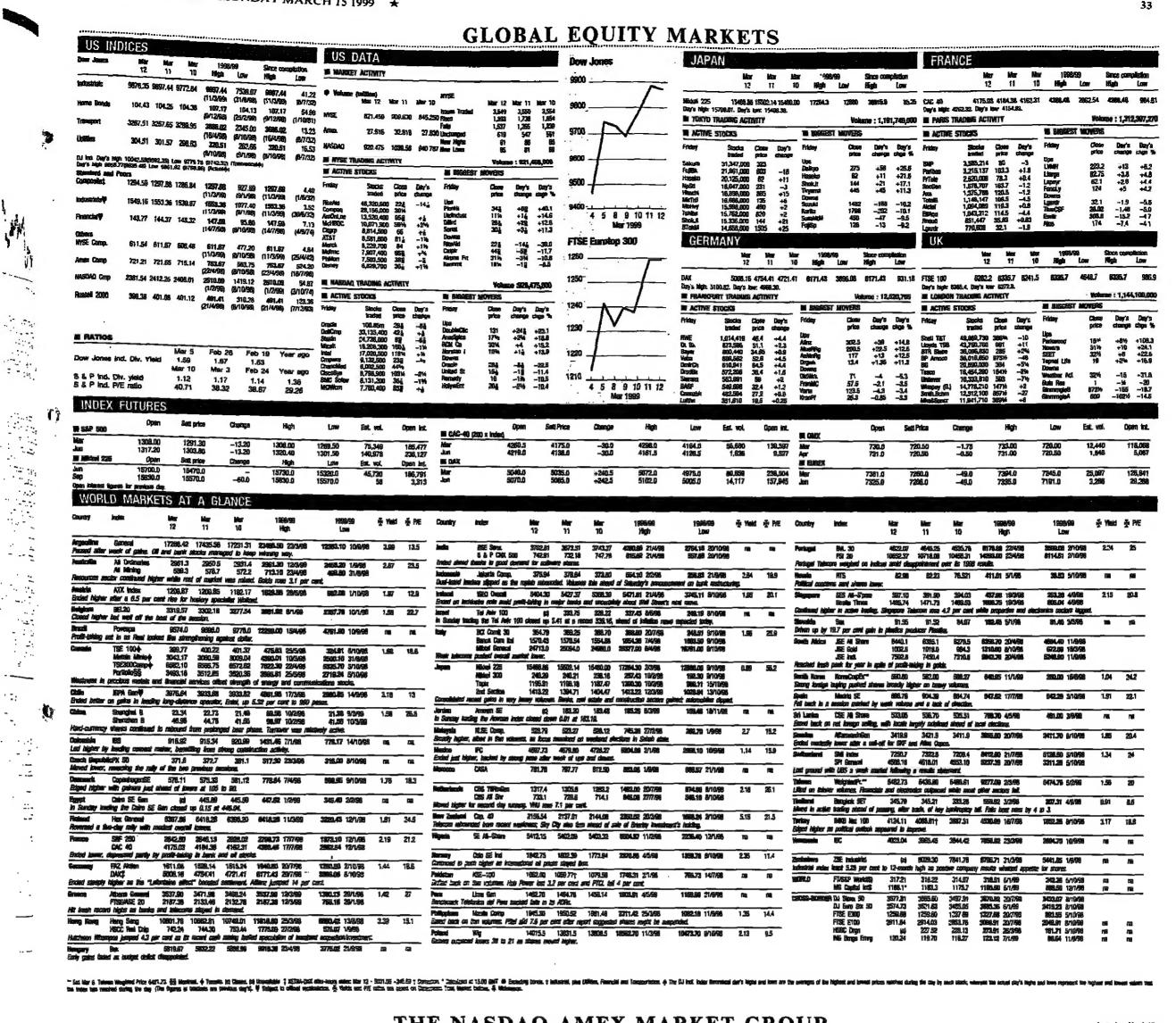
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MONDAY 15

Sticking to the agenda

Germany's watchword will be "business as usual" at today's regular meeting of European Union economics and finance ministers in Brussels. Last week's resignation of Oskar Lafontaine as Bonn finance minister will add an element of uncertainty to the proceedings. But the German presidency of the EU is determined that it will not hold up discussions on a lengthy agenda that includes such tricky issues as the Agenda 2000 negotiations on EU reform, the future of duty free sales within the EU and critical European Commission reports on the published plans of Paris and Bonn to cut budget deficits.

Commission probe

The European Commission holds an emergency meeting tonight to discuss what is expected to be a critical report from a five-member committee of experts on how the EU's executive body deals with fraud, mismanagement and nepotism. The report will be presented to Jacques Santer, the commission president, and José Maria Gil-Robles, the president of the European Parliament, late in the afternoon. There is likely to be heavy pressure for resignations from the parliament if the report singles out individual commissioners for wrongdoing.

WTO's green side

The Geneva-based World Trade Organisation hosts a high-level symposium on trade and environment over the next two days, followed by one on trade and development issues. The symposia are intended to create "an open dialogue" between environment, development and trade officials from national governments, academics and non-governmental organisations as well as international bodies including the World Bank, IMF and the United Nations. The WTO has been criticised by outside groups for not doing enough to accommodate environmental and sustainable development concerns.

Trade row hearing

The US Senate finance trade subcommittee holds a hearing on the agriculture trade disputes with European Union and China.

Protecting culture

Diplomats from nearly 100 states meet in The Hague to finalise a protocol strengthening the 1954 Hague convention on the protection of cultural assets at time of armed conflict. The protocol, a response to the wanton





Stout fellows: Wednesday's traditional St Patrick's Day testivities at the White House will be

destruction of cultural heritage in recent conflicts such as the shelling of Dubrovnik (Croatia), is due to be signed in May 1999. The two-week conference is hosted by the Dutch government and the United Nations Educational, Scientific and Cultural Organisation (Unesco).

Gulf War paybacks

The United Nations Compensation Commission meets in Geneva for four days to consider claims filed by corporations and governments arising out of Iraq's invasion of Kuwait in 1990. The commission has already resolved over 2.5m claims out of the 2.6m received and awarded compensation of \$7.4bn to 1.4m individuals and families. The remainder involve bigger more complex claims. The compensation awards are financed by 30 per cent of Iraqi oil revenues under the UN's "oil for food" mechanism.

Trilateral strategy

The Trilateral Commission in Washington concludes its 26th annual meeting of political, business and academic leaders from Europe, North America and Japan with a report on strategies for the 21st century.

Bug problems

Representatives hearing is held on year

A joint US Senate and House of

2000 computer problems in the

Transportation Department and Federal

Holidays Hungary, Liberia.

FT survey

Life Sciences. TUESDAY 16

US Africa policy A three-day US-Africa ministerial

meeting opens in Washington, marking the first anniversary of President Bill Clinton's trek through the continent. The conference - to be attended by the president, nine US cabinet members and representatives from 46 African nations - focuses on the proposed legislation to give trade benefits and some debt relief to countries which adopt policies backed by the US.

Middle East Banking.

FT survey

WEDNESDAY 17

Olympian battle

The International Olympic Committee opens a two-day session in Lausanne to discuss the Salt Lake City bribery scandal and decide whether to expel suspended members. The 112 members are expected to support president Juan Antonio Samaranch against calls for his dismissal.

Child protection

Norway will present a national plan to combet commercial sexual exploitation of children during the Stockholm ministerial meeting on children at risk in the Baltic Sea region. The meeting is a follow-up on last year's Tallinn conference and will be attended by government and parliamentary representatives and experts from the Baltic Region, European Union and United Nations

Chinese overture

Li Yafei, deputy secretary-general of Beijing's Association for Relations Across the Taiwan Strait, visits Taiwan He will prepare the ground for a planned visit by China's top Talwan negotiator, Wang Daohan, which would be the highest-level exchange on Talwan soil since the civil war split in

St Patrick's Day

President Bill Clinton hosts annual St Patrick's Day celebrations at the White House. Nobel prize winners John Hume and David Trimble will attend, with Sinn Fein leader Gerry Adams. Senator George Mitchell will receive

the Medal of Freedom, the highest honour available to a US civilian, in recognition of his work on the Good Friday agreement. There are hopes that the president's involvement will help break the deadlock over the issue of arms decommissioning. Mr Clinton will hold separate talks with the party leaders. The meeting will also give Al Gore, vice-president and likely Democratic candidate in the 2000 presidential elections, the opportunity to demonstrate his handling of the Irish issue in public.

Holidays Ireland, Bangladesh.

THURSDAY 18

Pasok passions

Greece's governing Panhellenic Socialist Movement (Pasok) starts a four-day party congress. Costas Simitis, the prime minister, will come under fierce attack from the hard left faction over the government's bungled attempt to protect Abdullah Ocalan, the Kurdish guerrilla leader, its efforts to broaden privatisation and campaign to reform the education system. Mr Simitis's modernising faction, which claims to be supported by a majority of the 5,000 delegates, will battle for control of the party's central

committee. Mr Simitis is unlikely to be

the vote for seats on the executive board - still known as the politburo will indicate whether his main rival, Akis Tsochatzopoulos, the defence minister, is gaining ground.

Holidays Mauritius, Indonesia,

FT SURVEY

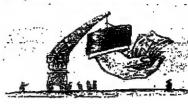
Review of Telecommunications.

FRIDAY 19

Beef dispute report The dispute settlement body of the World Trade Organisation meets in Geneva to hear a progress report from the European Union on compliance with a WTO ruling against its barr on hormone-treated beef. The meeting is also due formally to adopt two WTO rulings, on Japan's quarantine tests for apples and other fruit and on US anti-dumping duties on South Korsan memory chips.

Threat to trade

Leon Brittan, European Commision vice-president, and Clare Short, UK



international development secretary. are among speakers at a London conference on the threat to world trade and investment posed by corruption.

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Holidays

Malta, Spain.

FT surveys FT Director: Cuba.

SUNDAY 21

Push for reform

European Union foreign ministers meet for a second weekend in succession in a bid to narrow differences over the Agenda 2000 negotiation on EU reform. Their "conclave" in Brussels will follow a week in which Gerhard Schröder, the German chancellor, will have visited EU capitals to assess the scope for compromise and ahead of the special March 24-25 EU summit in Berlin that is supposed to complete the negotiations.

Holidays

Namibia, South Africa, Syria, Tunisia. Mexico, Azerbeijan, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan.

Compiled by Roger Beals challenged for the party leadership, but | Fax 44 171 873 3196

ECONOMIC DIARY

Other economic news

Monday: The Japanese current account surplus is likely to have surged in January, by more than 90 per cent year on year. Tuesday: New Zealand's central bank is expected to fix its official cash interest rate at between 4 per cent to 4.25 per cent. The cash rate approach replaces the use of the monetary conditions index to set policy, though this continues to be published. Wednesday: UK labour market figures will confirm if the Bank of England is correct in its view that earnings pressures are abating. If so, more interest rate cuts could be coming. Thursday: The European Central Bank meets to fix euro-zone interest rates in Frankfurt, as the IFO business climate survey for Germany is published. The survey is expected to show a further fall in confidence. Friday: Inflation in Canada has consistently surprised the financial markets by being lower than expected. January's core inflation rate fell to 1 per cent, and is likely to fall below that level when the February figures are published.

Day Released	Country	Sconomic Statistic	Median Forecast	Previous Actual	Day Released	Country	Economic Statistic	Medien Forecast	Previou Actual
Mon	Japan	Feb money supply (M2+CD)**		3.6%		US	Jan trade goods & services	-\$15.0bn	-\$13,8
Mar 15	Japan	Feb broad liquidity**		3.1%		us .	Jan goods & services (BOP)	\$78.8bn	\$78.51
Tue	Japan	Jan Industrial production†		0.8%		US	Jan goods & services import (BOP)	\$93.6bn	592.3
Mar 16	Japan	Jen shipmentst		1.2%		US	Initial claims Mar 13	295k	289k
	UK	Feb pub sector net cash requirement	-£2,5bn	-£12.4bn		US	M2 - week ended Mar 8	-\$7.1bn	
	US	Feb building permits		1.78m		US	Mar Philadelphia Federal Index		15.9
	US	Feb housing starts	1.75m	1.8m	Fri	Australia	Q4 dwelling commencements		0.7%
	US	BTM Schroders, March 13		0.2%	Mar 19	France	Jan industrial production?"	0.5%	-1.6%
	US	Feb Industrial production	unch .	unch		France	Jan ex energy"	0.4%	-0.7%
	US	Feb capacity utilisation	80.3%	80.5%		Italy	Jan CPI* (FOI)	0.1%	0.0%
	US	Redbook, March 13		0.1%		Italy	Jan CPI** (FOI)	1.3%	1.5%
Wed	UK	Dec average earnings 3M**	4,3%	4.5%		Italy	Jan CPI* (NIC)	0.1%	0.1%
Mar 17	UK	Jan unit wages 3M**		2.5%		italy	Jan CPI" (NIC)	1.5%	1.7%
	UK	Feb unemployment rate	0.0k	-5.7k		Italy	Jan HiCP* .	0.1%	0.1%
	Canada	Jan wage settlement inc"	1.9%	22%		Italy	Jan HiCP**	1.5%	1.7%
Thur	Germany	Feb Ifo W Germany bus climate Index	91.0	91.1		Italy	Feb HICP*	0.2%	
Mar 18	Germany	Feb Ito W Germany, balance format		-13.1		Italy	Feb HICP	1.4%	
	UK	Feb retail sales*	-0.5%	1.1%		Canada	Feb CPI all items**	0.7%	0.6%
	UK	Feb retail sales**	1.6%	1.2%		Canada .	Feb CPI excluding food & energy	0.8%	1.0%
	EMU	Dec trade world/ex-EMU		€6.5bn		Canada ·	Jan wholesale trade†*	0.7%	1.3%
	UK	Feb prov M4*	0.7%	0.0%	During t	he week			
	UK.	Feb prov M4**	7.1%	7.3%		Japan	Feb Tokyo dept store sales**		4.5%
	UK	Feb M4 lending	£4,5bn	£4.7bn		Germany	Jan manuf orders pan-Germany	0.3%	-0.1%
	US	Feb CPI	0.1%	0.1%		Brazil	Jan monetary base and M	7.2%	17.590

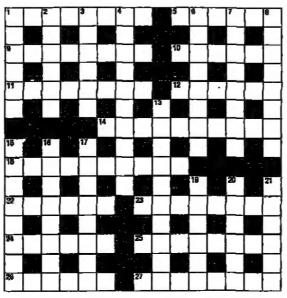
ACROSS

- 1 Student thrown outside laughed (8) 5 Said team sounded sad (6)
- 9 Gum frene stirred into cake 10 Joints some butchers rank
- less popular (6 11 Persistent rendering of a bad tune (5)

 12 Lay on one male model (6) 14 Trouble Democratic union
- is in (10) 18 Check for prisoner on coaches entering street (10) 22 Toy firearm seen after tea.
- say? (6) 23 Seen on stage one in three wise men can (8)
 24 Scoff during attempt to reach agreement (6)
 25 Tradition at wedding etc. if
- not complicated (8)
 26 A plant bed not to be 27 Leading actress tried so to develop heavenly body (8)
- DOWN College grounds American
- after party (6) 2 Fancied a Parislan official 3 in the Balkans a secondary state (6)
- A Anagram came in clue
 relating to Christian
 churches (10)
 6 Head walter leaving Wyoming in terrible disgrace
- 7 Sacred building was in debt Courses needing bringing back, it's emphasised (8) 13 Disgraceful sweep gues to
- do Saul arranged (10)

 15 Overjoyed to find church uplifting still (8)

 16 Happening to need about nine policemen in time (8)
- 17 Titles upsetting to a heel 19 French money in a heap of rubbish (6) 20 One writing things about
- street restaurant (6) 21 Loose female relative goes to front door topless! (6)



Winner of Puzzle No.9,926: M.R.G. Nicholls, Caterham.

MONDAY PRIZE CROSSWORD

No.9,838 Set by GRIFFIN

A prize of a Tombow Lucca fountain pen and rollerball set, worth £125, will be awarded for the first correct solution opened. Solutions by Thursday March 25, marked Monday Crossword 9,938 on the envelope, to the Financial Times, 1 Southwark Bridge, London SE1 9HL. Solution on Monday March 29. Please allow 28 days for delivery of prizes.

Solution 9,926



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JOTTER PAD

